

## Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Walter MJ, Shen D, Ding L, et al. Clonal architecture of secondary acute myeloid leukemia. *N Engl J Med* 2012;366:1090-8. DOI: 10.1056/NEJMoa1106968.

## SUPPLEMENTARY APPENDIX

Supplement to: Walter MJ, Shen D, Ding L, et al. Clonal Architecture of Secondary Acute Myeloid Leukemia.

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## A. SUPPLEMENTARY INFORMATION

**Synopsis of Clinical Histories.** All patients provided written informed consent on a tissue banking protocol with explicit language authorizing whole genome sequencing, entitled "Tissue Acquisition for Analysis of Genetic Progression Factors in Hematologic Malignancies" that was approved by the Washington University School of Medicine Human Research Protection Office (HRPO) on 10/23/06 and renewed annually thereafter. Samples were obtained from each patient at the time of referral with MDS ("MDS banking") and at progression to sAML ("sAML banking").

**UPN 461282.** A 65 year old male with refractory anemia with excess blasts (RAEB) received supportive care only (erythropoietin, RBC transfusion) until MDS banking on day 1077 after initial diagnosis. He had a complex karyotype at MDS banking consisting of: -17, del(20)(q11.2),r[5]/idem,del(5)(q31q33)[10]/idem,del(5)(q13q33)[3]/ idem,-X,add(X)(q22),der(12)t(12;?) del(12)(q22)[2]. He then received 11 cycles of decitabine, followed by 3 cycles of lenalidomide. On day 1755 (day 660 after MDS banking) he progressed to sAML. At sAML banking his karyotype showed: del(5)(q22q33), -17,del(20)(q11.2)[14]. He then underwent standard induction ("7+3"), followed by salvage chemotherapy (fludarabine, high dose cytarabine, and filgrastim) for induction failure. He then proceeded to a matched, unrelated stem cell transplant with fludarabine/busulfan/thymoglobulin conditioning. He had evidence of persistent disease at day+30 following transplant, received two cycles of decitabine, and died of progressive leukemia on day 2009 (day 932 after MDS banking).

The patient's past medical history was notable for basal cell carcinoma, localized prostate cancer, a pancreatic neuroendocrine tumor, and bronchioloalveolar carcinoma, all treated surgically without adjuvant chemoradiotherapy. A sister and two nieces had early onset breast cancer (age<40). One niece also had a neuroendocrine tumor and clinical testing revealed an inherited deleterious *TP53* variant.

**UPN 667720.** A 66 year old female with RAEB was treated initially with supportive care (erythropoietin and RBC transfusions) until MDS banking on day 8, followed by four cycles of decitabine. She was then observed until sAML progression at day 667 (day 659 after MDS banking). Her karyotype was normal at MDS and sAML banking. She received one further cycle of decitabine, followed by supportive care until her death on day 724 (day 716 after MDS banking).

**UPN 610184.** A 45 year old female with refractory anemia (RA) was observed for one year, then received 3 cycles of lenalidomide prior to MDS banking on day 162 after diagnosis. She had a complex karyotype at MDS banking consisting of: add(1)(p36.3),del(5)(q13q33),-13,dic(16;21)(p13.3;q11.2),add(17)(p13),-18,-22. She received no further therapy until progression to sAML on day 314 (day 152 after MDS banking). Her karyotype at sAML banking showed: add(1)(p36.3),del(5)(q13q33),-7,-13,dic(16;21)(p13.3;p11.2),add(17)(p13),-18,-22,+mar[cp17]. She then underwent standard induction chemotherapy ("7+3"), followed by salvage chemotherapy (mitoxantrone, etoposide, cytarabine) for induction failure. On day 398 (day 236 after MDS banking), she underwent a matched, unrelated donor transplant, relapsed, and died of progressive disease on day 589 (day 427 after MDS banking).

**UPN 182896.** A 75 year old male with RA was observed until MDS banking on day 69 after diagnosis. His karyotype at MDS banking showed: +8 [6]. He then received supportive care only (RBC transfusion) until sAML progression on day 1047 (day 978 after MDS banking). His karyotype at sAML banking showed: +3, +8, +9, -12, +15, +19, +22 [cp11]. He then received 5 cycles of decitabine and intermittent hydroxyurea until he died from progressive disease on day 1205 (day 1136 after MDS banking).

**UPN 266395.** A 65 year old male with RAEB treated with supportive care (erythropoietin, RBC transfusion) until MDS banking on day 46 after initial diagnosis. He received one month of hydroxyurea before sAML progression on day 76 (day 30 after MDS banking). His karyotype was normal at MDS and sAML banking. He required emergency leukopheresis, followed by 5-azacytidine for 6 cycles. He then developed CNS leukemia and received supportive care only until his death on day 321 after diagnosis (day 275 after MDS banking).

**UPN 288033.** A 31 year old female with RAEB at diagnosis and MDS banking was observed until sAML progression on day 28. Her karyotype was normal at MDS and sAML banking. She underwent induction chemotherapy (cytarabine, daunorubicin, and etoposide), followed by reinduction and salvage chemotherapy

before proceeding to a matched, unrelated donor transplant. She died of graft-versus-host disease on day 367 (day 367 after MDS diagnosis).

**UPN 298273.** A 27 year old male with RAEB at diagnosis and MDS banking received 3 cycles of an oral angiogenesis inhibitor (Vatalanib) on a clinical trial until sAML progression on day 131. His karyotype was normal at MDS and sAML banking. He then received one cycle of 5-azacytidine, followed by a matched, unrelated donor transplant. He relapsed on day 257 and received salvage chemotherapy, but died of graft-versus-host disease on day 540 (day 514 after MDS banking).

## B. SUPPLEMENTARY METHODS

**Flow sorting of bone marrow samples.** Bone marrow cells from the sAML samples, cryopreserved in 10% DMSO, were rapidly thawed at 37°C, washed, and stained with PE-Cy7 conjugated hCD45, clone J.33 (Beckman Coulter), and FITC conjugated anti-hCD34, clone 581 (Beckman Coulter). The blast population (low SSC/CD45 dim) was sorted using a Reflection high speed cell sorter (Sony iCyt) directly into lysis buffer and genomic DNA was prepared by column purification (Qiagen DNeasy).

**Whole genome sequence production.** Four DNA libraries were generated for paired-end sequencing: two from the tumor samples (flow-sorted sAML myeloblasts), and two from the normal samples (punch biopsy of unaffected skin). Genomic DNA (not subjected to whole genome amplification) was used for sequence production. Sequence data was generated using the Illumina HiSeq2000 or GAIIX platforms in 2 x 75 paired-end reads. Aligned, deduplicated reads were retained for variant detection.

**Genome coverage.** Individual reads were aligned to the reference genome (NCBI build 36) and only unique reads (deduplicated reads) were used to determine haploid coverage of the genome for the normal and sAML samples (**Supplementary Table 1**). We identified all the heterozygous and homozygous SNPs present in the normal and sAML genomes using the Affymetrix SNP 6.0 arrays and determined diploid coverage for each genome based on the number of these SNPs that were identified using the WGS data, as previously described (**Supplementary Table 1**).<sup>1</sup>

**Somatic mutation detection.** Putative somatic single nucleotide variants (SNVs) were called by SAMtools<sup>2</sup> and retained if present in the tumor sample, but absent in the paired normal sample. High confidence (HC) and low confidence (LC) tier 1-4 predictions were made, as previously described.<sup>1</sup> Briefly, tier 1 contains all changes in the amino acid coding regions of annotated exons, consensus splice-site regions, and RNA genes (including microRNA genes). Tier 2 contains changes in highly conserved regions of the genome or regions that have regulatory potential. Tier 3 contains mutations in the nonrepetitive part of the genome that do not meet tier 2 criteria, and tier 4 contains mutations in the remainder of the genome.

Small (<100 bp) insertion/deletion events (indels) were called by GATK, SAMtools, and Pindel.<sup>3</sup> To identify somatic DNA copy number changes from whole genome sequencing (WGS) data, reads aligned by BWA<sup>2</sup> were binned into contiguous, non-overlapping 1 kb windows. Copy number for each bin was normalized to the median copy number for each chromosome in tumor and normal separately. A Hidden Markov Model algorithm<sup>4</sup> was used to generate a list of segments with copy number expressed as log<sub>2</sub> (tumor/normal). Deletions, amplifications, inter-, and intrachromosomal rearrangements were also predicted using BreakDancer.<sup>5</sup>

**Mutation validation.** To comprehensively evaluate tier 1-3 predictions, we utilized a custom solid-phase capture platform. We selected all tier 1 SNV predictions (HC and LC) and all HC tier 2-3 SNVs. Tier 1-3 indel predictions were also included. In addition, we used this approach to validate structural variant (SV) predictions (deletions and rearrangements). We identified 8-16 SNPs that were heterozygous in the normal DNA sample (determined using the WGS and SNP array data) that were located within the affected segments and 8 SNPs from flanking normal regions. The genomic positions of SNVs and indels (with a 200 bp margin) and SVs (with a 400 bp margin) were submitted for probe design. Probes were synthesized on custom HD2.1 long oligonucleotide arrays (Roche NimbleGen). Whole genome amplified DNA (REPLI-g, Qiagen) from the normal (skin), unfractionated MDS, and unfractionated sAML samples was used as bait for capture on the arrays and the recovered DNA (enriched for target sequences) was resequenced on the Illumina GAIIX platform.

At least 10x coverage was obtained for 87.2-93.7% (mean 91.1%), 88.5-92.9% (mean 90.6%), and 88.8-93.8% (mean 91.8%) of the target bases for the normal, MDS, and sAML samples, respectively (**Supplementary Table 1**). Reads were mapped using BWA,<sup>2</sup> deduplicated, and merged into BAM files. The reference or somatic status at the nucleotide of interest was then determined for each sample using VarScan<sup>2</sup><sup>6</sup> with the following parameters: min-coverage=10, min-var-freq=0.05, somatic-p-value<0.01, validation=1. To validate low-frequency (2-5%) SNVs, we re-ran VarScan with adjusted parameters: min-coverage=100, min-var-freq=0.02, somatic-p-value<0.01, validation=1. In validation mode, VarScan reads data from tumor and normal samples simultaneously, performing pair-wise comparisons at every position covered in both samples. Each position is classified as Reference (wild-type), Germline, LOH, or Somatic, based upon a comparison of the consensus genotypes and supporting readcounts (Fisher's Exact test). Positions called Somatic are further subjected to our internally-developed false-positive filter which removes sequencing- and alignment-related artifacts using several criteria (readcount, mapping quality, average read position, strand representation, homopolymer-like sequence context, mismatch quality sum difference, trimmed read length, Q2 distance) and were manually reviewed. Chromosome X and Y somatic positions are determined using the false-positive filter and manual review. To classify MDS variant calls we identified the average frequency of the nonreference and nonvariant readcounts (termed "off-base" readcounts) relative to the total reads for each SNV in the MDS genome. For an SNV to be called Somatic in MDS, we required that the MDS mutant allele frequency was two standard deviations above the average off-base frequency in the MDS genome and that at least 3 variant reads were detected. All other calls were called Reference in the MDS genome. This analysis has a sensitivity of detecting a heterozygous point mutation in approximately 1/166 cells in an MDS sample (below this threshold, mutations are indistinguishable from sequencing errors). We analyzed mutated genes to identify common pathways based on gene ontology using DAVID.<sup>7</sup>

**Screening for mutation recurrence.** We performed three screens to detect genes that were recurrently mutated in MDS/sAML. First, we directly examined the list of validated tier 1 mutations in the seven cases and recognized recurrent mutations in *RUNX1* and *UMODL1*. Second, we systematically tested all validated tier 1 mutations from one patient (UPN461282) in a cohort of 150 individual patients with *de novo* MDS. We prepared pools containing equimolar amounts of whole genome amplified DNA extracted from unfractionated bone marrow aspirates from each patient. 21 total pools were created (the MDS and normal samples from UPN461282 were retained in separate pools and the remaining 149 MDS samples were divided into 19 pools). PCR amplicons for each of the 22 validated tier 1 single nucleotide variant mutations (excluding *CELSR1*) were generated using unique barcodes for each pool. The pools were then combined and sequenced using the 454 platform. The reference and variant allele was determined at the nucleotide position of interest, and the variant allele frequency determined. The reference or somatic status of each gene at the nucleotide of interest was then determined for each pool using VarScan2.<sup>6</sup> Finally, we compared the frequency of tier 1 mutations with translational consequences detected in the MDS or sAML samples to the frequency of putative somatic coding region mutations in the same genes in a set of 200 *de novo* AML samples subjected to whole genome (n=50) or whole exome (n=150) sequencing. The *de novo* AML sequencing was performed as a collaboration between the Washington University Genome Institute and The Cancer Genome Atlas Consortium. Validation of all putative mutations will be performed using liquid capture hybridization and deep sequencing and will be reported separately (TJ Ley, RK Wilson, and The Cancer Genome Atlas AML study, in preparation). Novel recurrently mutated genes reported here (*CDH23*, *SMC3*, *UMODL1*, *ZSWIM3*) were all manually confirmed by Sanger sequencing. There is a typical representative of FAB (M0-M7) and cytogenetic subtypes within this AML cohort. The following data release was used: phs000178.v5.p5 accessed via the TCGA data portal (<http://tcga-data.nci.nih.gov/tcga/tcgaHome2.jsp>).

**SNP array analysis.** Genomic DNA samples (not subjected to whole genome amplification) from the normal, MDS, and sAML specimens (not flow-sorted) were hybridized to Affymetrix 6.0 SNP arrays (Affymetrix, Inc.). Analysis of copy number alterations and copy neutral loss of heterozygosity was performed using the Partek Genomics Suite (Partek, Inc.).

**Clustering of SNV data.** To identify the number of clones existing in the MDS and sAML samples, the copy number adjusted deep digital sequencing readcount data from custom capture was subjected to unsupervised clustering. We reasoned that mutations that "travel together" in the same clone would have similar wildtype:mutant allele frequencies, but subclones would have different allele frequencies that are proportional to the size (fraction of cells) of the clone. For example, heterozygous mutations in a clone that involves 100% of the tumor sample would have wildtype:mutant allele frequencies of ~50%. To perform an unbiased analysis of the readcount data, the variant allele frequencies were first analyzed by dbscan<sup>8</sup> using a reachability

distance of 2% to identify outliers. Singleton points identified using this algorithm were then provided as points likely resulting from noise to the Mclust algorithm.<sup>9</sup> Mclust was then run on the same data set with the noise inputs, the default prior probabilities on the variance, and limited to a maximum cluster number=5. From 10 possible models of shape, orientation and variance, Mclust identified a diagonal mixture model with varying volume and shape as the optimal fit to the data. If a cluster contained mutations that were classified as both Reference and Somatic in the MDS genome, the smallest number of misclassified mutations were reclassified as outliers. A cluster had to contain at least 1% of the total number of mutations to be retained as a cluster.

**Validation of copy number alterations.** Somatic copy number alterations were identified in the sAML genomes using three orthogonal platforms (whole genome sequencing, SNP arrays, and the solid-phase capture arrays) and two platforms in the MDS samples (SNP arrays and the solid-phase capture arrays). Somatic copy number alterations were considered validated if at least two platforms (including the SNP array) identified the same copy number alteration (**Supplementary Table 4, Supplementary Fig. 6**). The copy number of each abnormal region was calculated based on the SNP arrays and this value was used to adjust the mutant allele frequency of each validated somatic SNV in that genome. For regions with a copy number <2, the copy number-adjusted variant allele frequency was calculated as: the variant allele frequency [variant allele readcount/(variant allele readcount + reference allele readcount) x 100] x (copy number from SNP array/2). The mutant allele frequency of mutations falling inside a region of copy neutral loss of heterozygosity were adjusted by dividing by 2 taking into consideration of whether a mutation occurred before or after the duplication event. Mutations falling within regions with a copy number > 2 (i.e., trisomy or tetrasomy) were also copy number-adjusted based on the expected distribution of mutant alleles that could occur prior to or after the duplication event.

**Clustering of copy number data.** We designed capture probes spanning heterozygous SNPs that were present in the normal sample (skin) and deleted or retained in the tumor samples (based on SNP arrays and WGS data; **Supplemental Table 4**). The frequency of readcounts supporting the retained allele (A allele) was measured for each site in the skin, MDS and sAML samples (**Supplemental Table 5**). To perform an unbiased analysis of the readcount data, the A allele frequencies (calculated as: reads supporting A allele/reads supporting A or B allele) were first analyzed by dbscan and then by Mclust, as described above for SNVs. UPN 461282 had readcounts from 75 loci and UPN 610184 had readcounts from 2,174 loci available for clustering. A cluster had to contain at least 1% of the total number of loci to be retained as a cluster.

## C. SUPPLEMENTARY RESULTS

**Unfractionated versus myeloblast-purified MDS and sAML samples.** Previous studies by our group and others have suggested that the myeloblast count greatly underestimates the size (fraction of cells) of the malignant clone in MDS samples.<sup>10, 11</sup> However, the prior studies used Sanger sequencing and compared the mutant and reference allele trace peak heights to determine the mutant allele frequencies in samples, which is not as quantitative as the digital readcounts obtained using next-generation sequencing. In addition, our previous studies used whole genome amplified DNA. To test whether purifying myeloblasts increased the mutant allele frequency of tier 1 mutations in MDS and sAML samples, and to compare whether whole genome amplification biased our results, we compared the mutant allele frequencies in unfractionated MDS (6% myeloblasts) and sAML (69% myeloblasts) versus flow-sorted samples from UPN 461282 (**Supplementary Fig. 1**). DNA from the normal, MDS (unmanipulated or flow-sorted myeloblasts) and sAML (unmanipulated or flow-sorted myeloblasts) samples were subjected to whole genome amplification (Qiagen). Digital readcounts of HC tier 1 SNV predictions were obtained by PCR amplification followed by deep digital sequencing on the 454 (Roche) platform.

The mutant allele frequency (MAF) in the sorted sample was similar to the unsorted sample for both the MDS (sorted MAF was 5% lower, on average) and sAML (sorted MAF was 5.5% higher, on average) samples (**Supplementary Fig. 1**). In addition, whole genome amplification versus genomic DNA yielded highly similar results (**Supplementary Fig. 1**). This suggests that flow sorting and whole genome amplification had little impact on SNV detection by these sequencing platforms.

**Mutation recurrence.** All validated tier 1 mutations from UPN461282 were tested for recurrence in a cohort of 150 individual patients with *de novo* MDS using amplicon-based next-generation sequencing. Although all genes carrying tier 1 mutations were expressed in cells from the UPN461282 sAML sample, no tier 1 SNV was recurrently mutated at the identical nucleotide in the remaining 149 patients, suggesting that singleton

mutations may cooperate by altering common biological pathways. It remains possible that mutations in these genes exist at other nucleotide positions.

**Mutation spectrum in MDS and sAML.** Although the mutation spectrum is similar in the founding clone from all seven patients at the MDS stage, we observed a significant increase in transversions amongst sAML-specific mutations in two patients treated with decitabine ( $p<0.0003$ , two-sided Fisher's exact), and no significant change in two patients who did not receive decitabine between MDS banking and sAML banking and had a large number of sAML-specific SNVs (Supplementary Fig. 4). This pattern of mutations is similar to the excess in C>G transversions observed in *Escherichia coli*<sup>12</sup> and mice<sup>13</sup> following 5-azacytidine-induced mutagenesis, suggesting that the genetic evolution of MDS to sAML may be influenced by chemotherapy exposure in these two patients.

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## E. AUTHOR CONTRIBUTIONS

Matthew J. Walter: project leader, analysis coordination and manuscript preparation.

Dong Shen: project leader, sequence analysis.

Li Ding: project leader, supervisor data analysis team.

Jin Shao: microarray data analysis.

Dan C. Koboldt: capture validation data analysis.

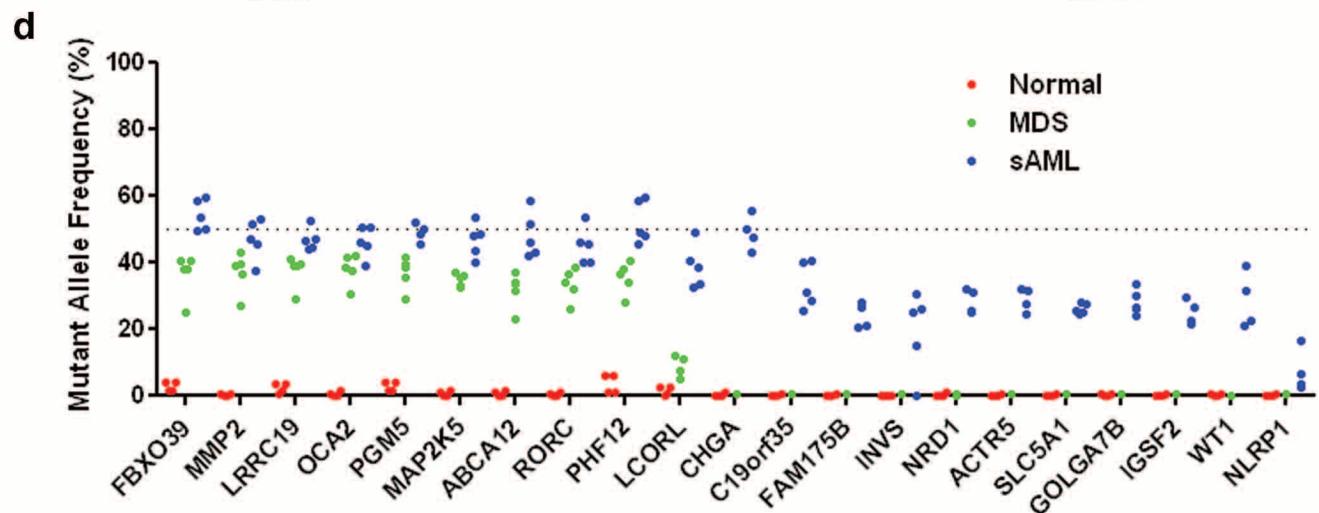
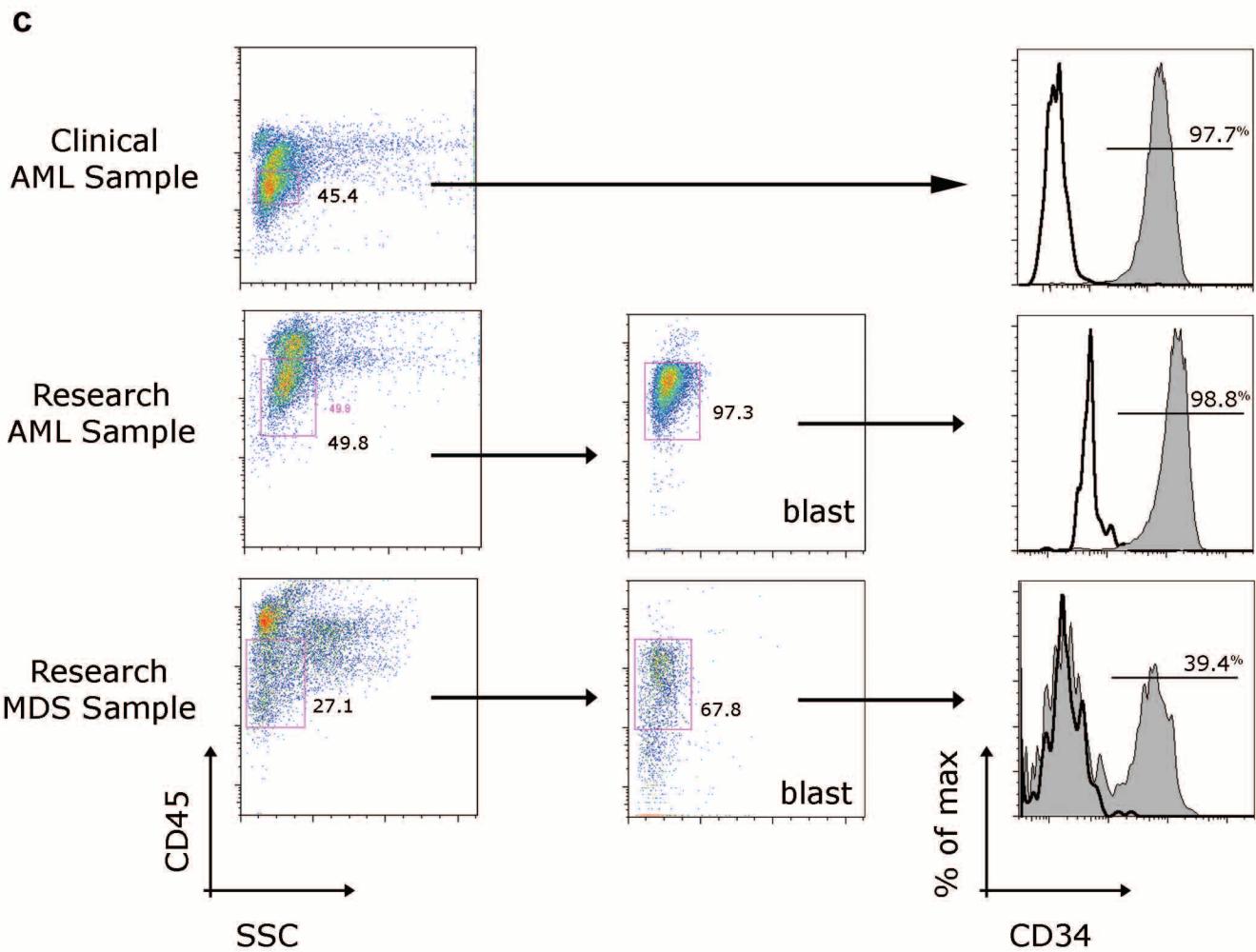
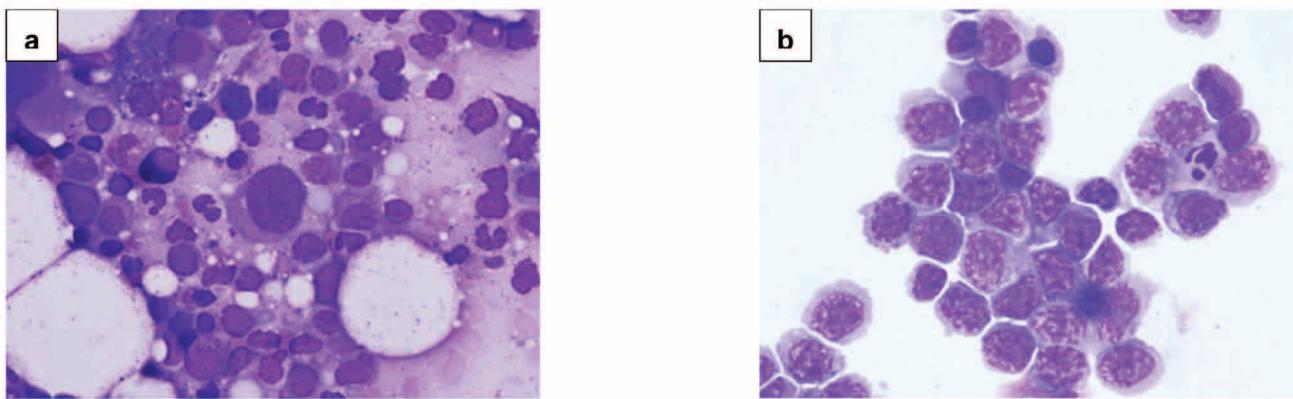
Ken Chen: copy number and structural variant analysis.

David E. Larson: hierarchical clustering.

Michael D. McLellan: auto-analysis and manual review of validation data.

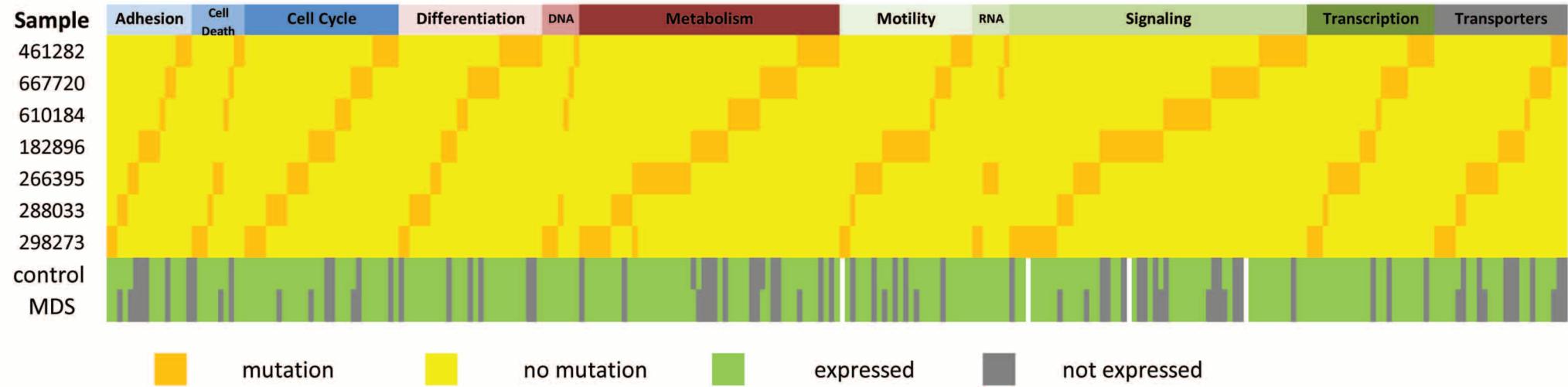
David Dooling: IT and data management, data analysis automation leader.

Rachel Abbott: variant validation production.  
Bob Fulton: variant validation oversight.  
Vincent Magrini: hybridization-based capture next-generation platform development.  
Heather Schmidt: manual review of variants.  
Joelle Kalicki-Veizer: manual review of variants.  
Michelle O'Laughlin: variant validation production.  
Xian Fan: copy number and structural variant analysis.  
Marcus Grillot: clinical data management and specimen acquisition.  
Sarah Witowski: clinical data management and specimen acquisition.  
Sharon Heath: clinical data management and specimen acquisition.  
John L. Frater: clinical hematopathology and flow cytometry review.  
William Eades: flow cytometry analysis and cell purification.  
Michael H. Tomasson: study design, execution and analysis.  
Peter Westervelt: clinical data and specimen acquisition, study design, execution and analysis.  
John F. DiPersio study design, execution and analysis and manuscript preparation.  
Daniel C. Link: study design, execution and analysis and manuscript preparation.  
Elaine R. Mardis: project conception, analysis coordination and manuscript preparation.  
Timothy J. Ley: project conception, study design, manuscript preparation.  
Richard K. Wilson: project conception and oversight, manuscript preparation.  
Timothy A. Graubert: project leader, study design, execution and analysis, manuscript preparation.



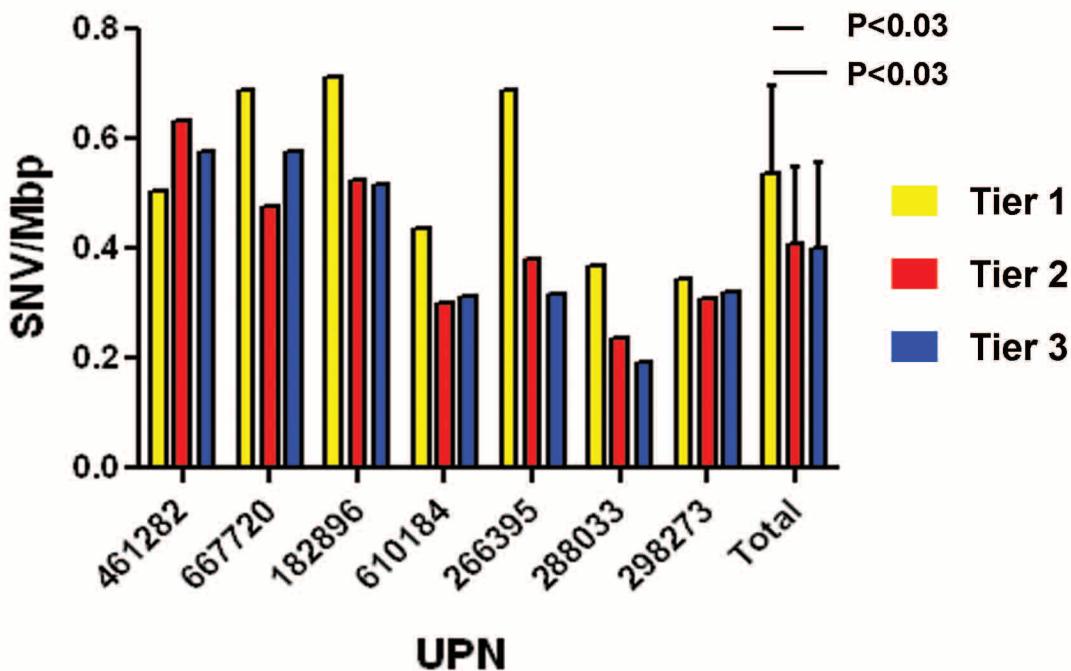
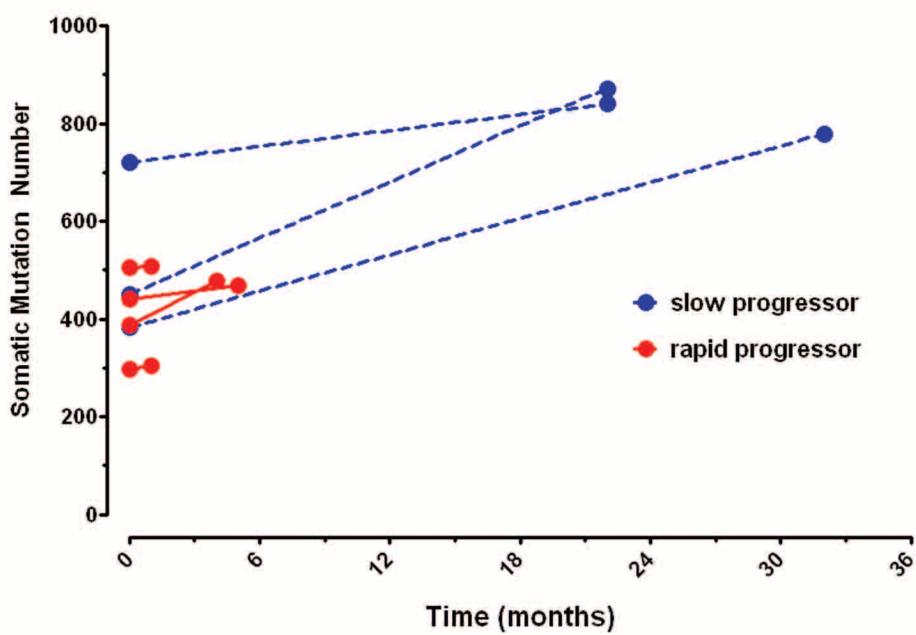
Supplementary Figure 1.

**Supplementary Figure 1. Effect of cell sorting and WGA on mutant allele frequencies.** (a) Wright-Giemsa-stained bone marrow aspirate of the MDS sample from UPN461282 demonstrates dysplastic megakaryocytes and granulocytes. A manual differential revealed 6% blasts, 4% promyelocytes, 9% myelocytes, 4% bands, 32% neutrophils, 12% eosinophils, 2% plasma cells, 6% lymphocytes and 25% erythroid precursors. Stainable iron was increased (not shown). Overall cellularity was 60%. The findings are consistent with a diagnosis of MDS, subtype RAEB-1. Original magnification is 1000X. (b) A Wright-Giemsa-stained cytopsin of the sAML sample from UPN461282 demonstrates increased blasts (69% percent) that were negative for myeloperoxidase and naphthyl butyrate esterase (not shown). Flow cytometric analysis (not shown) revealed an expanded blast population that was positive for CD34, CD117, CD56, CD33 (dim), HLA-DR (dim), and CD13 (dim). Original magnification is 1000X. (c) Schema for flow sorting of MDS and sAML myeloblasts. (Top row) Analysis of original diagnostic sAML sample demonstrates that 97% of blast-gated events (low SSC/CD45 dim) were CD34+. (Middle row) The thawed research sAML sample shows a similar blast population that was sorted to high (97.3%) purity and expresses CD34. (Bottom row) The thawed MDS sample was characterized by a smaller, poorly-defined blast population, leading to lower purity (67.8%) in the sorted product. (d) DNA was harvested from unfractionated bone marrow cells or FACS-sorted myeloblasts from the MDS and sAML samples. Genomic or whole genome amplified DNA was then sequenced on the 454 (Roche) platform using amplicons containing 22 validated tier 1 SNVs. The mutant allele frequency was calculated as: [mutant allele readcounts/(mutant allele readcounts + reference allele readcounts) x 100]. The mutant allele frequencies for the 22 genes were reproducible across sequencing platforms (WGS, PCR/454 sequencing, array-based capture sequencing), genomic vs. WGA DNA, and sorted vs. unsorted cells for the normal (n=4 independent experiments), MDS (n=5 independent experiments), and sAML sample (n=5 independent experiments).



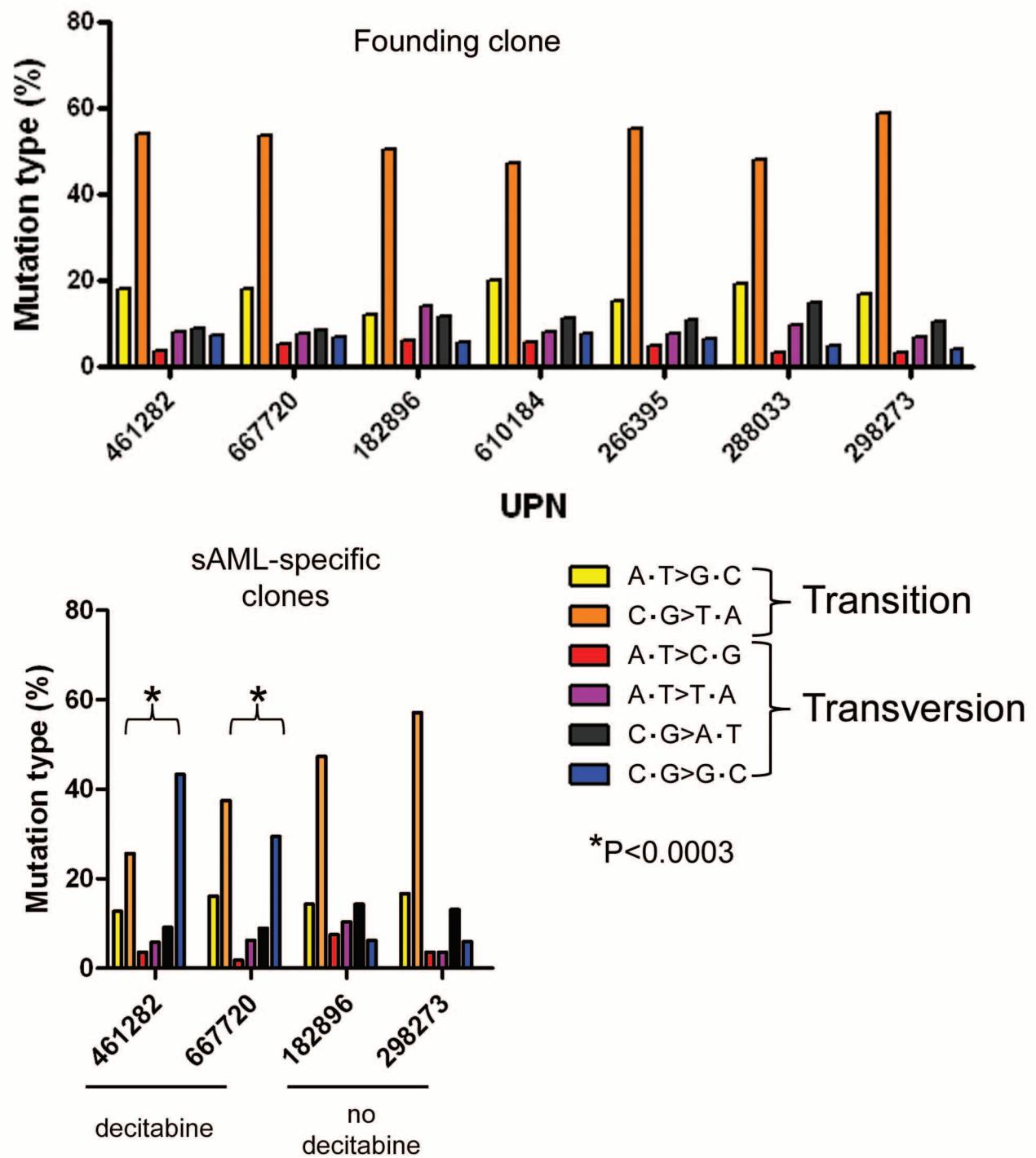
## Supplementary Figure 2.

**Supplementary Figure 2. Pathway analysis.** (top) GO categories for singleton tier 1 mutated genes in all seven patients. Expression of each gene in CD34+ cells from normal controls or MDS patients from a previous study<sup>10</sup> is shown below. The probe with the highest mean expression in controls was selected. Expressed (green) bars indicate probes that were scored as “present” in >25% of MDS samples. Empty (white) bars represent genes with no probes on the Affymetrix U133plus2 array. (bottom) Gene names and GO identifier IDs for each of the 11 pathways displayed in the heatmap.

**a****b**

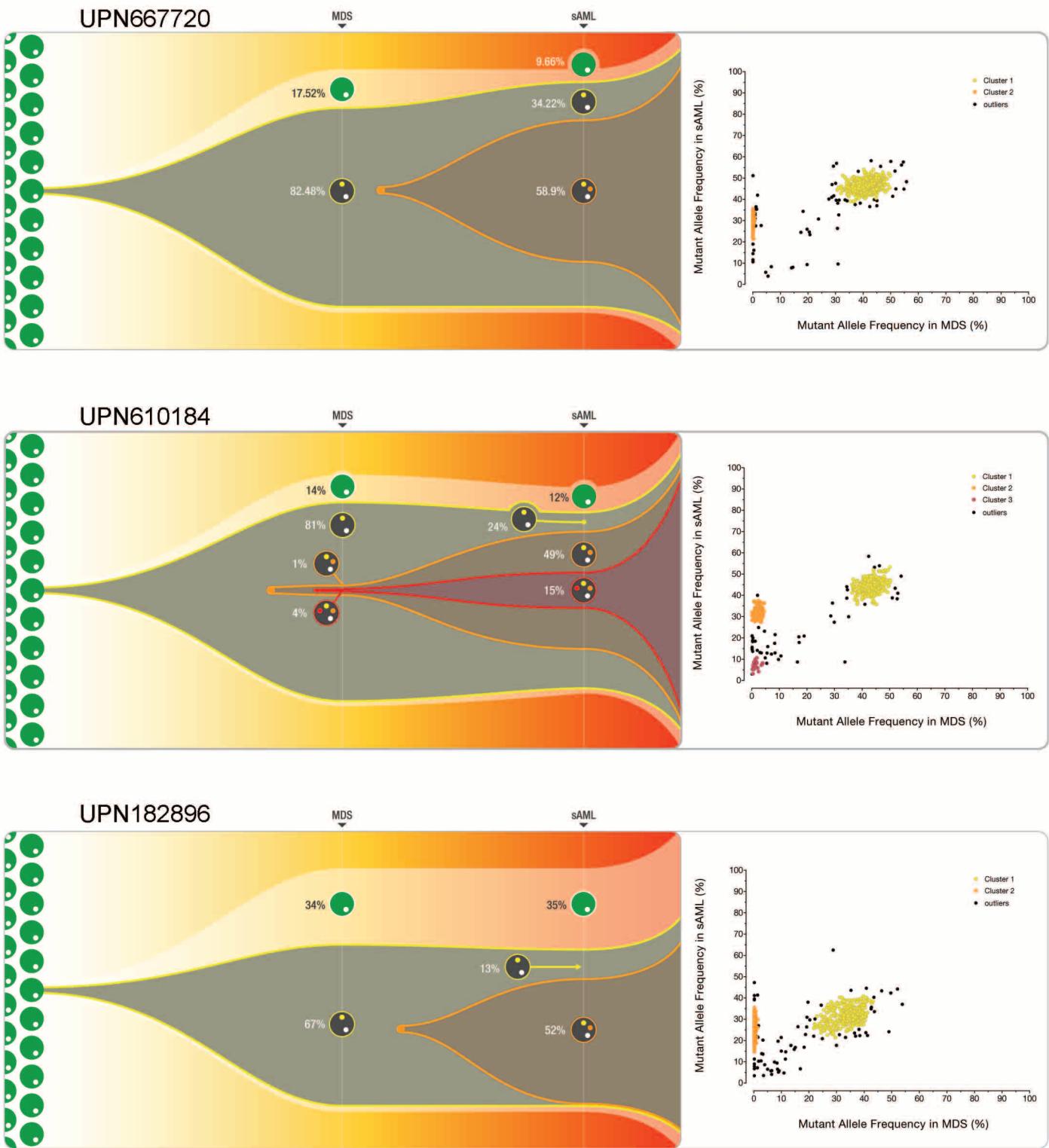
Supplementary Figure 3.

**Supplementary Figure 3. Correlation between the number of validated single nucleotide variants detected and genomic size of each tier.** (a) The number of validated somatic SNVs per megabase (Mb) of sequence in each tier is shown for all seven patients. There was a trend towards an increase in the average mutation rate in tier 1 compared to tiers 2 and 3, although this was not consistent across all samples. (b) The proportion of new somatic mutations is higher in patients that progress slowly to sAML (>20 months), compared to patients that progress rapidly (<6 months) (37.8% vs. 6.7%, respectively,  $P<0.05$ ).



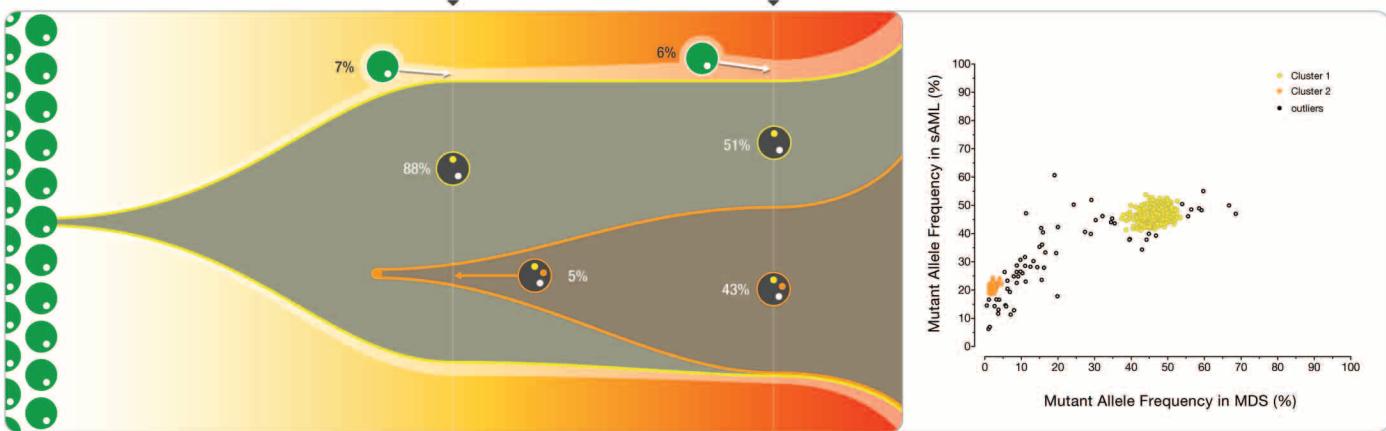
Supplementary Figure 4.

**Supplementary Figure 4. Mutation spectrum of MDS and sAML genomes.** (top) The spectrum of mutations in the MDS founding clone is similar in all seven patients. (bottom) Samples with sAML-specific mutations accounting for at least 10% of their total mutations were analyzed for changes in the spectrum of mutations compared to mutations in their founding clone. In four patients that acquired a large number of mutations (418, 112, 385, and 84 validated mutations, respectively, present in the non-outlier mutation clusters) during progression to sAML, the mutation spectrum was significantly enriched in C>G transversions in the two patients treated with decitabine and was unchanged in two patients that did not receive decitabine chemotherapy between MDS and sAML. P-value was calculated by comparing the total number of transition and transversion mutations for the founding and sAML-specific mutations from the same sample.

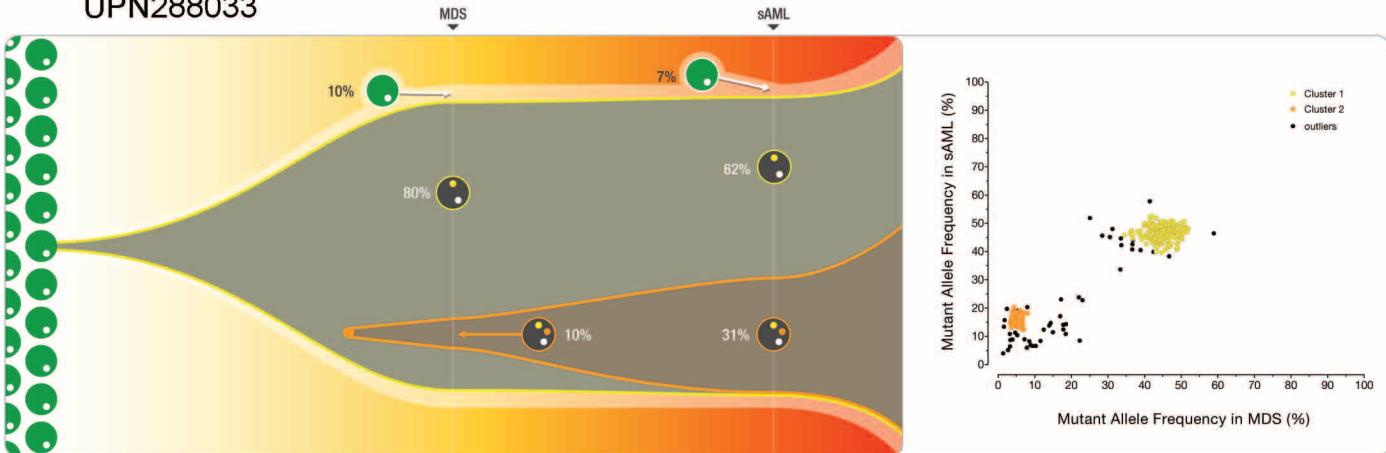
**a**

Supplementary Figure 5.

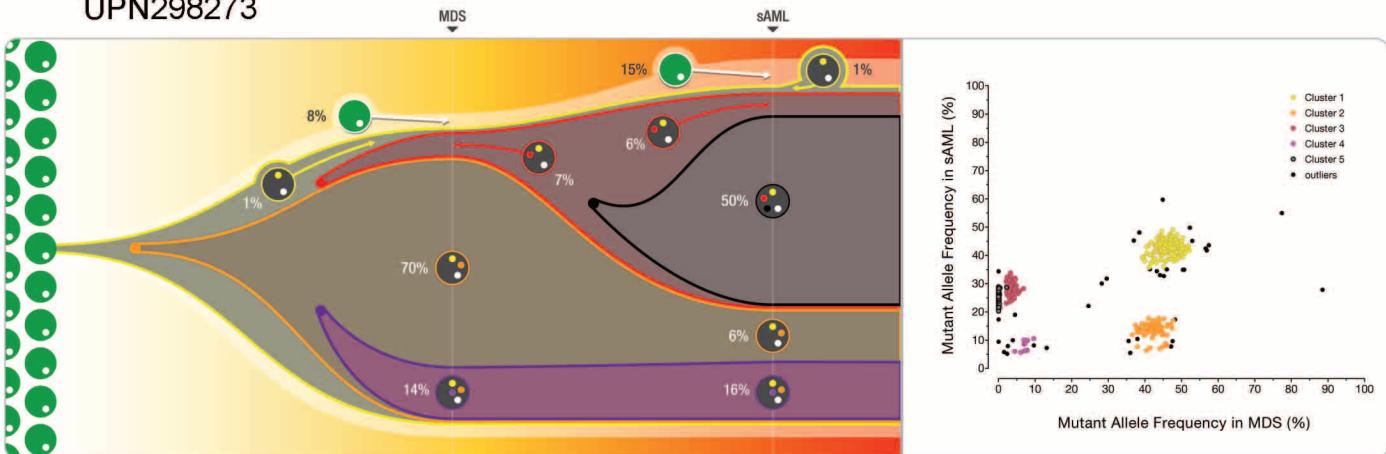
UPN266395



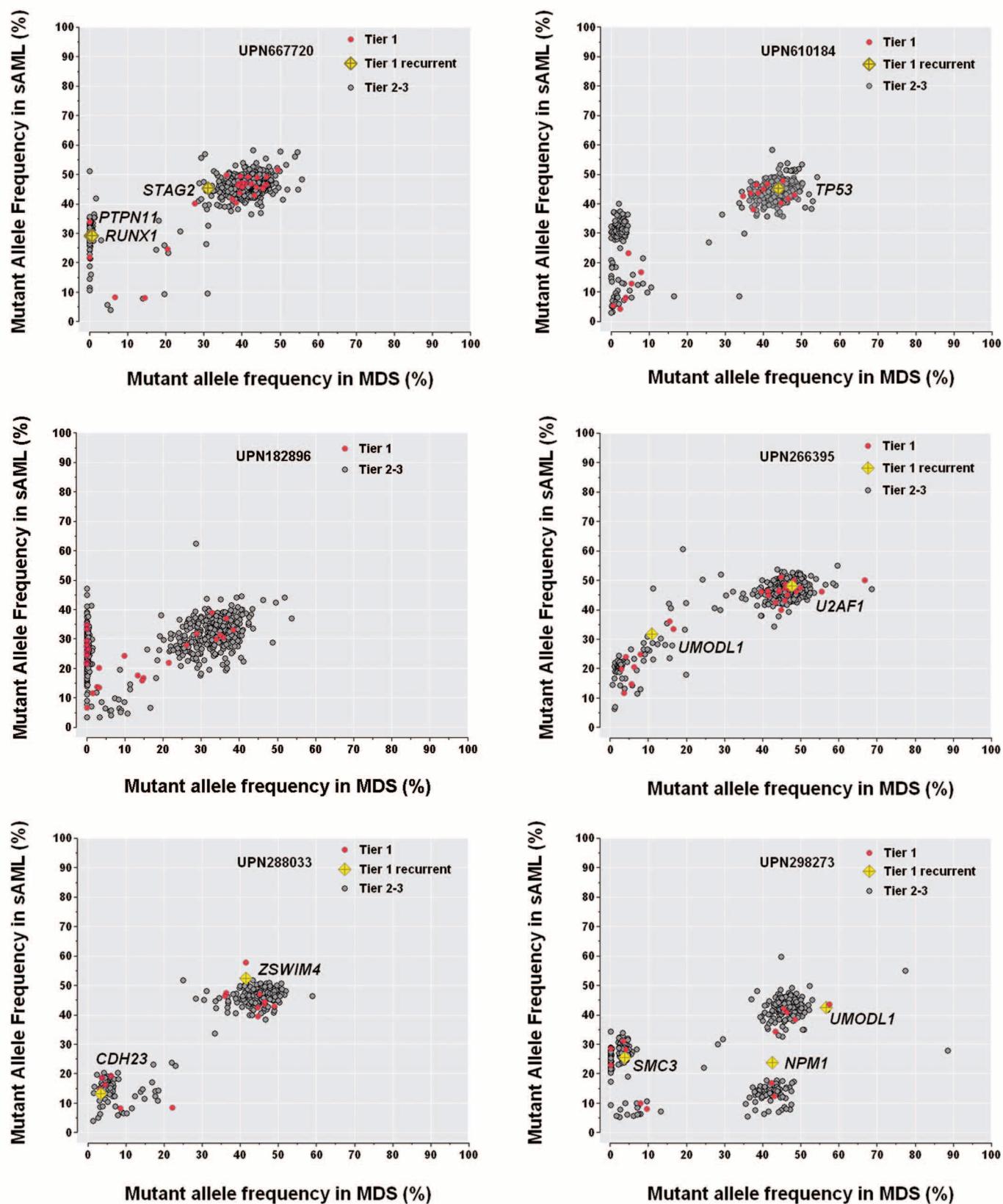
UPN288033



UPN298273

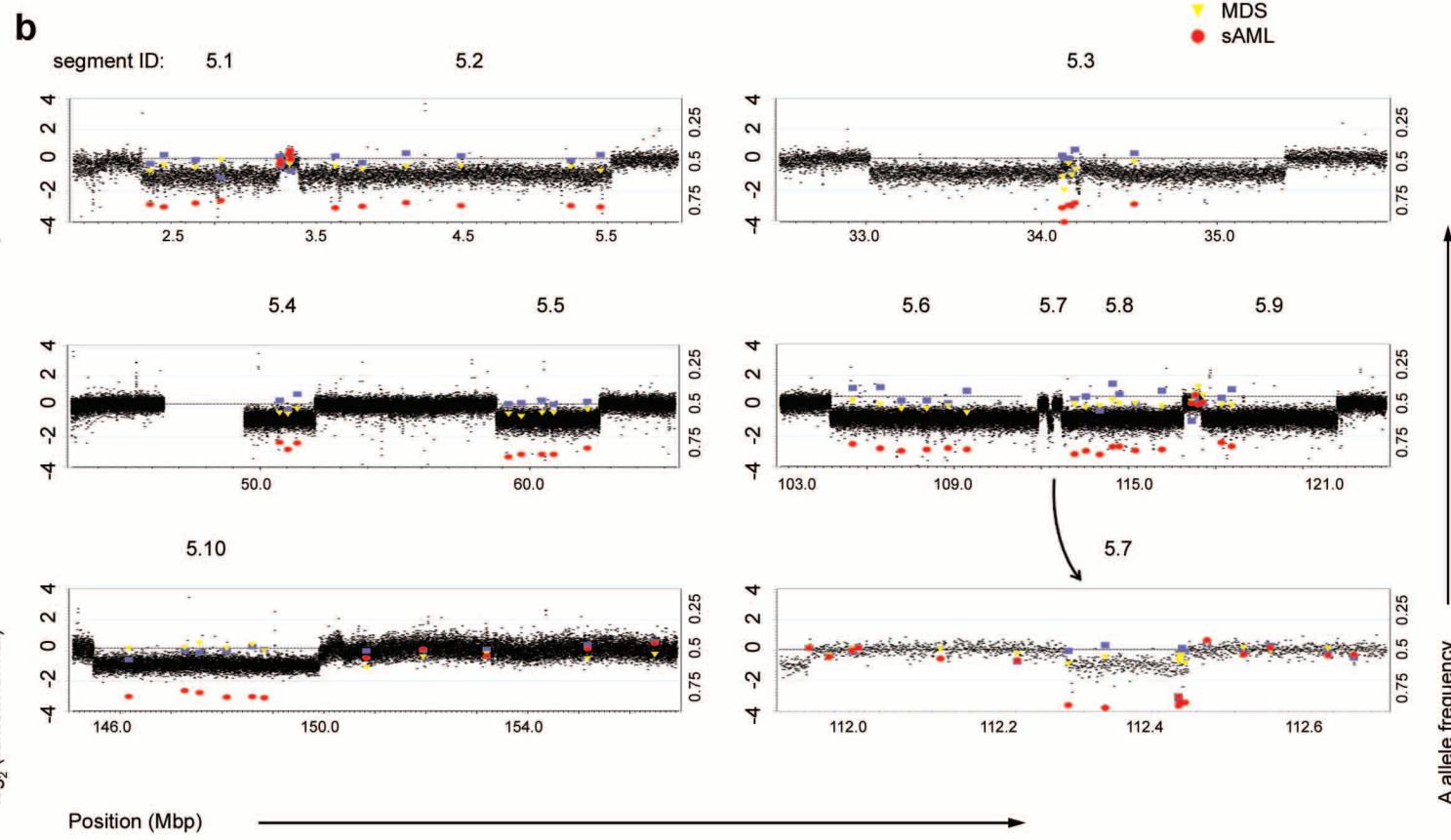
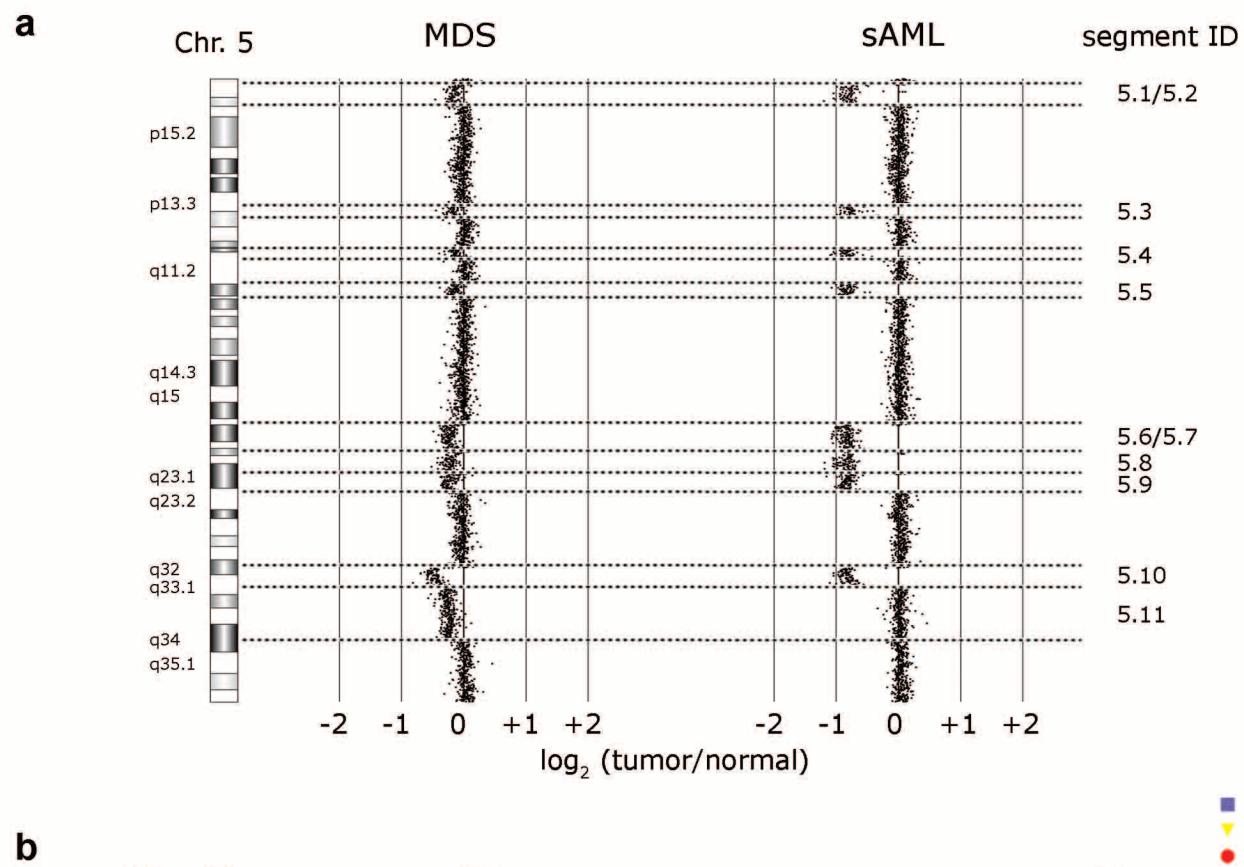


Supplementary Figure 5 (continued).

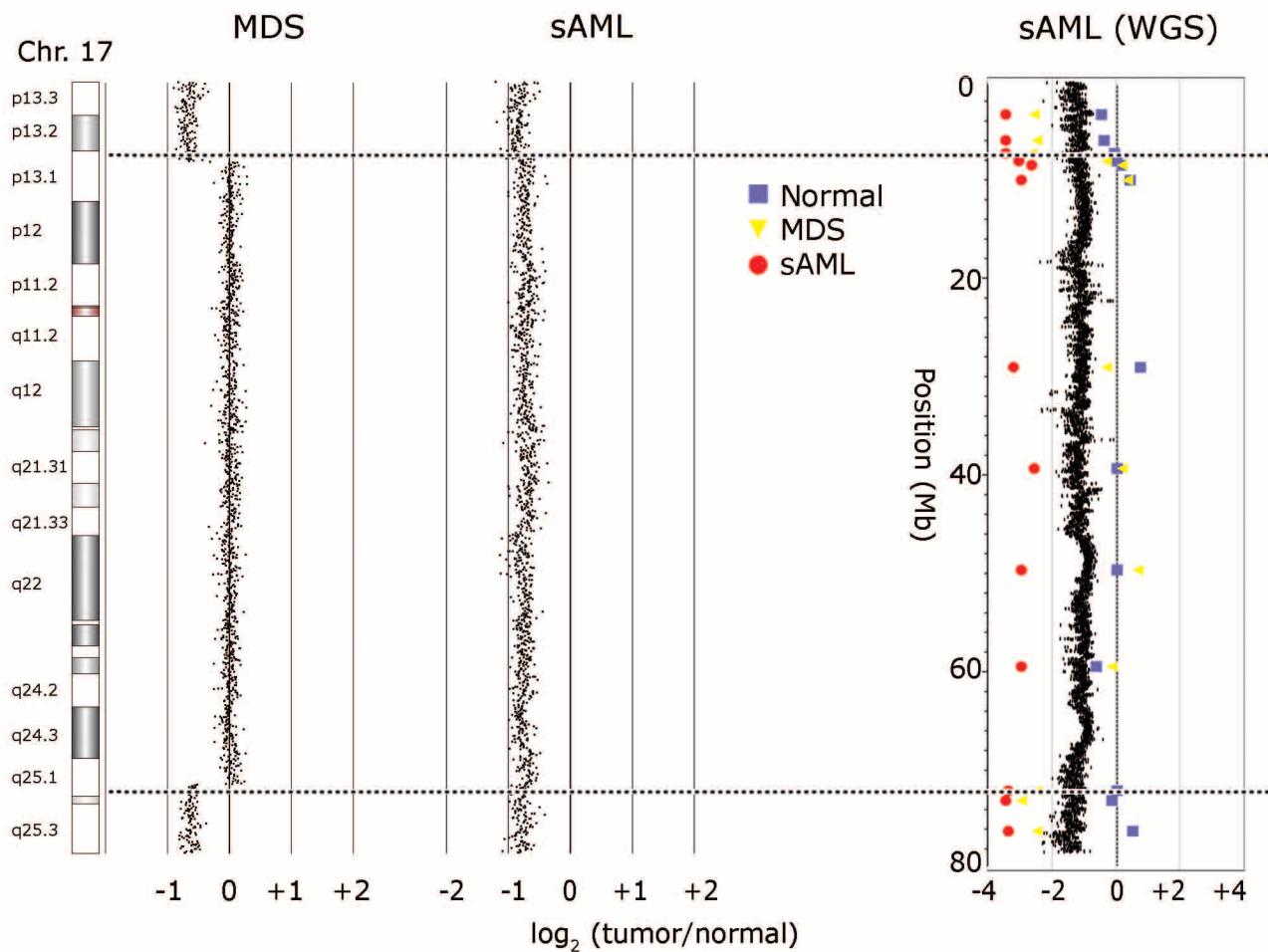
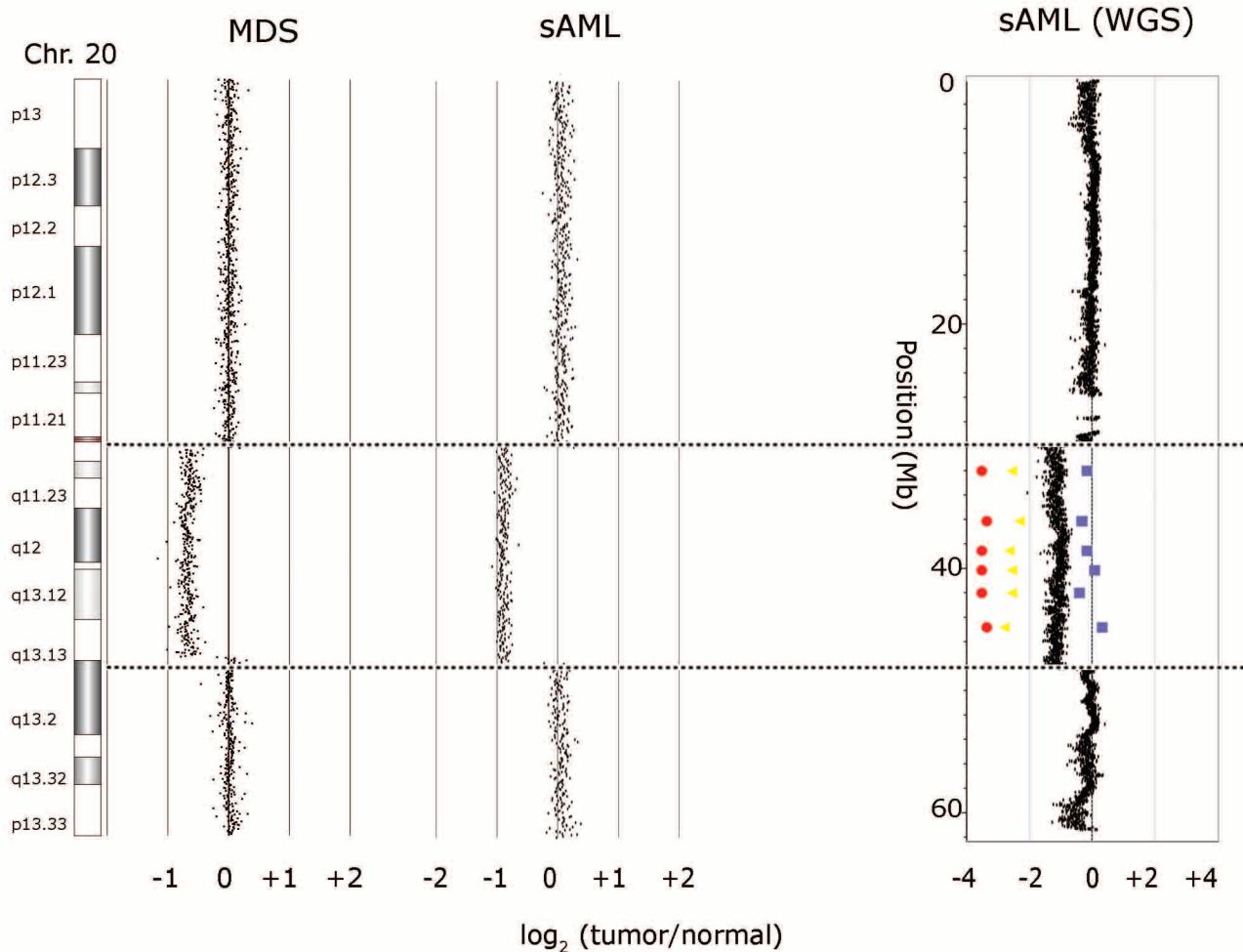
**b**

Supplementary Figure 5 (continued).

**Supplementary Figure 5. Clonal evolution in additional MDS/sAML samples.** (a) Model of clonal evolution and somatic SNV allele frequency cluster plots for six cases, in addition to the case shown in Figure 1. Mutant allele frequencies were corrected for copy number. (b) Somatic SNV allele frequency plots (corrected for copy number) showing tier 1 and recurrently mutated genes in each case.

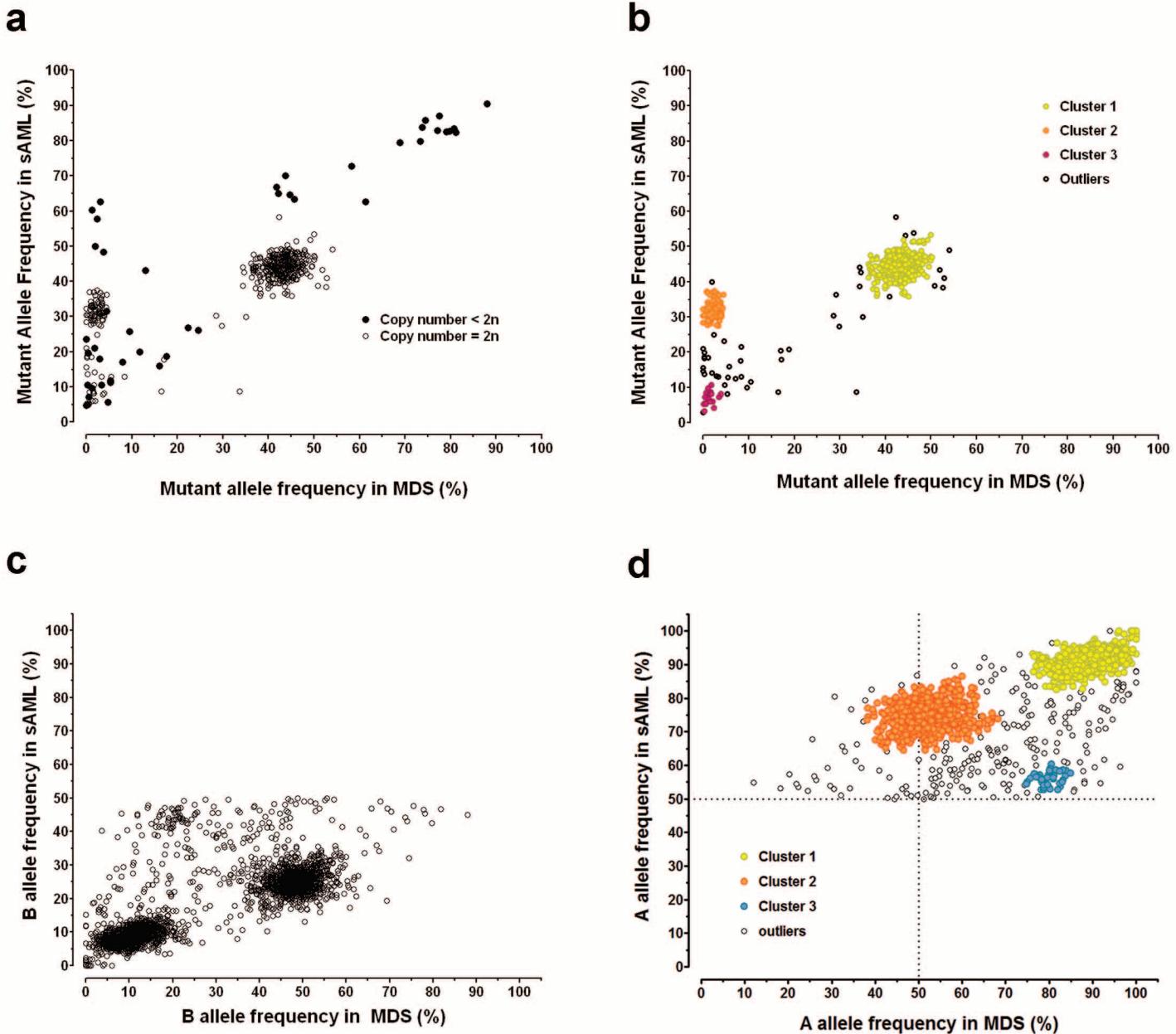


Supplementary Figure 6.

**c****d**

Supplementary Figure 6 (cont.).

**Supplementary Figure 6. Validation of copy number alterations.** (a) Interstitial deletions on chromosome 5 identified by SNPa karyotyping in the MDS and sAML sample from UPN461282. 11 deleted segments are apparent in the MDS sample. 10 deletions are detected in the sAML sample (a minor subclone containing segment 5.11 is lost during transformation), and all have lower  $\log_2$  ratios, consistent with a larger proportion of cells harboring the deletions. (b) Copy number analysis using whole genome sequence read depth is shown for the 10 deleted segments in the sAML sample. Copy number predictions are supported by deep digital sequencing readcount data from array-based capture of normal (blue), MDS (yellow), and sAML (red) samples. (c) Telomeric deletions at 17p and 17q detected by SNPa becomes monosomy 17 in the sAML sample. Loss of one copy of chromosome 17 is supported by WGS and capture data. (d) Interstitial deletion on chromosome 20q in MDS and sAML is detected by SNPa and supported by WGS and capture data.



Supplementary Figure 7.

**Supplementary Figure 7. Adjustment of mutant allele frequencies for copy number.** (a) Uncorrected SNV mutant allele frequencies in MDS and sAML samples from UPN610184. closed symbols: SNVs in non-diploid regions; open symbols: SNVs in diploid regions. (b) SNV mutant allele frequencies in MDS and sAML samples from UPN610184 after adjustment for copy number. Clusters identified using Mclust. (c) Frequency of “B” (deleted) allele in MDS and sAML samples from UPN 610184. (d) Frequency of “A” (retained) allele [where A allele frequency=1-B allele frequency] in MDS and sAML samples from UPN610184, clustered using Mclust. The dashed lines indicate the expected retained allele frequency for heterozygous SNPs that are in segments with normal (2n) copy number. The proportion of cells harboring a deletion is directly correlated with the frequency of the retained allele within the segment. The observed data fit a linear model where: the mean A allele frequency =  $(0.48) \times (\% \text{ of cells containing a deletion}) + 45.7$ . For example, the mean A allele frequency for the cluster 1 deleted segments is 89.3% in the MDS sample, which corresponds to 90.8% of cells harboring the deletion. This agrees closely with 86.4% of cells in the MDS sample harboring cluster 1 SNVs ( $2 \times \text{mean mutant allele frequency of } 43.2\% = 86.4\%$ ), suggesting that cluster 1 SNVs and CNAs co-exist within most cells in the founding clone in this sample.

**Supplementary Table 1. Sequence metrics.**

	<b>461282</b>	<b>667720</b>	<b>610184</b>	<b>182896</b>	<b>266395</b>	<b>288033</b>	<b>298273</b>
<b>Normal</b>							
<b>Whole Genome Sequence</b>							
lanes	26	11	8	8	8	12	12
aligned (Gbp)	101.75	111	113.60	122.5	134.9	116.5	124.1
haploid coverage	28.7	29.4	30.0	33.9	38.2	33.7	34.5
Diploid coverage Het SNPs (%)	99.43	99.25	99.32	99.10	98.91	97.76	98.18
Diploid coverage Hom SNPs (%)	99.37	99.58	99.53	99.61	99.55	99.01	99.57
<b>Capture Validation</b>							
total target bases	1,402,824	5,264,627	6,424,203	9,055,793	3,826,567	4,944,931	4,101,604
target bases with >=1x coverage (%)	91.72	96.43	96.47	97.19	93.06	95.99	94.90
target bases with >10x coverage (%)	88.22	93.04	93.29	93.70	87.16	91.78	90.36
target bases with >20x coverage (%)	86.13	91.44	91.73	91.33	84.22	90.17	88.73
<b>sAML</b>							
<b>Whole Genome Sequence</b>							
lanes	32	13	8	8	12	14	20
aligned (Gbp)	134.38	123	115.50	117.03	124.4	149.6	132.3
haploid coverage	26.5	32.7	29.8	34.0	39.1	43.0	35.0
Diploid coverage Het SNPs (%)	95.99	99.65	95.74	99.19	99.31	99.35	98.96
Diploid coverage Hom SNPs (%)	99.49	99.63	98.57	98.39	99.17	99.55	99.10
<b>Capture Validation</b>							
target bases with >=1x coverage (%)	91.93	95.94	96.20	97.25	94.86	96.22	94.62
target bases with >10x coverage (%)	88.77	92.50	93.52	93.77	91.34	92.28	90.37
target bases with >20x coverage (%)	87.31	90.95	92.01	91.52	89.84	90.49	88.73
<b>MDS</b>							
<b>Capture Validation</b>							
target bases with >=1x coverage (%)	92.06	95.77	96.70	96.68	93.78	95.38	94.67
target bases with >10x coverage (%)	88.99	92.11	92.87	92.37	88.53	89.63	90.00
target bases with >20x coverage (%)	87.43	90.09	90.24	89.01	86.15	86.55	87.85

Het SNPs, single nucleotide polymorphic sites genotyped as heterozygous using Affymetric 6.0 SNP array and both wildtype and variant alleles detected in whole genome sequence data  
Hom SNPs, single nucleotide polymorphic sites genotyped as homozygous using Affymetric 6.0 SNP array and only variant allele detected in whole genome sequence data

Supplementary Table 2. Validated somatic SNVs in MDS/sAML genomes.

Sample	Chr	Start	Ref Allele	Var Allele	Gene Name	Tier	Mutation	Ref Reads in Normal	Var Reads in Normal	Var Freq in Normal	Ref Reads in MDS	Var Reads in MDS	Var Freq in MDS	Copy number adjusted Var Freq in MDS	Var Type MDS	Somatic P-value	Ref Reads in AML	Var Reads in AML	Var Freq in AML	Copy number adjusted Var Freq in AML	Var Type AML	Somatic P-value	Mutation Cluster
461282	1	4,641,132	G	A	AJAP1	2	intronic	422	2	0.47	246	159	39.26	39.26	Somatic	0.000	379	371	49.47	49.47	Somatic	0.000	1
461282	1	14,034,681	C	T	PRDM2	2	3_prime_flanking_region	641	0	0.00	1254	0	0.00	0.00	Reference	1.000	1238	389	23.91	23.91	Somatic	0.000	4
461282	1	14,100,039	A	G	C1orf196	3	intronic	255	1	0.39	173	124	41.75	41.75	Somatic	0.000	229	242	51.38	51.38	Somatic	0.000	1
461282	1	16,904,175	C	T	ESPNP	3	intronic	310	2	0.64	525	122	18.86	18.86	Somatic	0.000	1062	301	22.08	22.08	Somatic	0.000	0
461282	1	17,110,129	C	G	CROCC	2	5_prime_flanking_region	98	0	0.00	127	0	0.00	0.00	Reference	1.000	209	67	24.28	24.28	Somatic	0.000	4
461282	1	26,024,892	T	G	FAM54B	3	intronic	283	0	0.00	520	1	0.19	0.19	Reference	0.648	699	251	26.42	26.42	Somatic	0.000	4
461282	1	35,002,037	G	A	GJA4	3	5_prime_flanking_region	812	0	0.00	919	0	0.00	0.00	Reference	1.000	764	392	33.91	33.91	Somatic	0.000	3
461282	1	37,264,714	A	G	GRIK3	3	intronic	247	0	0.00	375	1	0.27	0.27	Reference	0.845	377	182	32.56	32.56	Somatic	0.000	3
461282	1	38,935,186	T	C	LOC400750	3	5_prime_flanking_region	505	1	0.20	592	0	0.00	0.00	Reference	1.000	716	204	22.17	22.17	Somatic	0.000	4
461282	1	40,273,395	C	A	CAP1	3	5_prime_flanking_region	1662	1	0.06	467	89	16.01	16.01	Somatic	0.000	505	298	37.11	37.11	Somatic	0.000	2
461282	1	52,074,694	C	G	NRD1	1	missense	327	2	0.61	361	2	0.55	0.55	Reference	0.476	284	96	25.26	25.26	Somatic	0.000	4
461282	1	54,735,349	C	G	ENSG00000212079	3	5_prime_flanking_region	617	0	0.00	539	1	0.19	0.19	Reference	0.470	841	280	24.98	24.98	Somatic	0.000	4
461282	1	55,476,826	T	A	USP24	2	5_prime_flanking_region	71	0	0.00	94	0	0.00	0.00	Reference	1.000	50	27	35.06	35.06	Somatic	0.000	3
461282	1	64,298,598	C	T	ROR1	3	intronic	555	6	1.07	484	274	36.15	36.15	Somatic	0.000	471	383	44.85	44.85	Somatic	0.000	1
461282	1	76,849,739	C	G	ST6GALNAC3	3	intronic	650	0	0.00	847	1	0.12	0.12	Reference	0.814	715	193	21.26	21.26	Somatic	0.000	4
461282	1	78,246,236	G	C	DNAJB4	3	intronic	283	1	0.05	423	0	0.00	0.00	Reference	1.000	256	155	37.71	37.71	Somatic	0.000	3
461282	1	81,622,076	C	T	LPRH2	3	intronic	202	0	0.00	365	0	0.00	0.00	Reference	1.000	223	84	18.99	18.99	Somatic	0.000	4
461282	1	85,000,004	G	C	GBP7	3	intronic	459	0	0.00	628	0	0.00	0.00	Reference	1.000	438	124	22.06	22.06	Somatic	0.000	4
461282	1	92,361,819	G	T	BTBD8	3	intronic	140	0	0.00	142	18	11.25	11.25	Somatic	0.000	93	73	43.98	43.98	Somatic	0.000	2
461282	1	94,284,028	A	T	ABC44	2	intronic	311	0	0.00	442	0	0.00	0.00	Reference	1.000	394	292	42.57	42.57	Somatic	0.000	3
461282	1	94,547,592	G	A	ENSG00000178596	2	3_prime_flanking_region	908	0	0.00	1673	1	0.06	0.06	Reference	0.651	1723	132	7.12	7.12	Somatic	0.000	5
461282	1	96,170,243	G	A	ENSG00000221798	3	3_prime_flanking_region	410	9	2.15	372	234	38.61	38.61	Somatic	0.000	339	334	49.63	49.63	Somatic	0.000	1
461282	1	101,635,525	A	G	-	3	-	452	2	0.44	460	308	40.10	40.10	Somatic	0.000	407	346	45.95	45.95	Somatic	0.000	1
461282	1	101,978,722	C	T	LOC730029	3	3_prime_flanking_region	585	0	0.00	616	366	37.27	37.27	Somatic	0.000	552	387	41.21	41.21	Somatic	0.000	1
461282	1	107,469,977	C	G	NTNG1	3	5_prime_flanking_region	245	0	0.00	419	1	0.24	0.24	Reference	0.633	332	110	24.89	24.89	Somatic	0.000	4
461282	1	117,354,197	C	G	IGSF2	1	nonsense	517	0	0.00	861	1	0.12	0.12	Reference	1.000	741	215	22.49	22.49	Somatic	0.000	4
461282	1	120,190,223	C	T	REG4	3	5_prime_flanking_region	109	0	0.00	192	0	0.00	0.00	Reference	1.000	169	44	20.66	20.66	Somatic	0.000	4
461282	1	146,294,694	T	C	ENSG00000201183	2	5_prime_flanking_region	383	0	0.00	431	0	0.00	0.00	Reference	1.000	341	135	28.36	28.36	Somatic	0.000	4
461282	1	150,046,599	G	A	RORC	1	silent	634	4	0.63	448	253	36.09	36.09	Somatic	0.000	709	592	45.50	45.50	Somatic	0.000	1
461282	1	156,907,288	A	G	SPTA1	3	intronic	42	0	0.00	68	0	0.00	0.00	Reference	1.000	50	17	25.37	25.37	Somatic	0.000	4
461282	1	161,137,224	T	C	C1orf110	3	5_prime_flanking_region	827	2	0.24	985	139	12.37	12.37	Somatic	0.000	772	586	43.15	43.15	Somatic	0.000	2
461282	1	162,108,781	C	A	-	3	-	692	0	0.00	831	1	0.12	0.12	Reference	0.546	651	251	27.83	27.83	Somatic	0.000	4
461282	1	167,150,625	T	C	LOC391132	3	intronic	445	0	0.00	712	14	1.93	1.93	Somatic	0.001	410	304	42.58	42.58	Somatic	0.000	0
461282	1	178,848,445	G	C	XPR1	3	5_prime_flanking_region	223	0	0.00	340	0	0.00	0.00	Reference	1.000	422	26	5.80	5.80	Somatic	0.000	5
461282	1	179,634,360	G	A	CACNA1E	2	5_prime_flanking_region	956	0	0.00	1543	2	0.13	0.13	Reference	0.386	965	681	41.37	41.37	Somatic	0.000	3
461282	1	181,612,293	G	A	NNMT2	3	intronic	456	0	0.00	531	0	0.00	0.00	Reference	1.000	499	144	22.40	22.40	Somatic	0.000	4
461282	1	182,856,528	C	G	C1orf21	3	3_prime_untranslated_region	712	1	0.14	1178	1	0.08	0.08	Reference	0.859	1231	345	21.89	21.89	Somatic	0.000	4
461282	1	193,225,336	C	T	-	3	-	275	1	0.06	372	158	36.74	36.74	Somatic	0.000	295	167	39.20	39.20	Somatic	0.000	1
461282	1	194,170,529	T	C	-	3	-	500	0	0.00	409	101	20.04	20.04	Reference	0.544	244	225	47.67	47.67	Somatic	0.000	3
461282	1	194,731,668	G	A	KCNT2	3	intronic	300	0	0.00	497	0	0.00	0.00	Reference	1.000	529	249	43.08	43.08	Somatic	0.000	5
461282	1	200,086,617	A	G	IPO9	3	intronic	138	0	0.00	172	0	0.00	0.00	Reference	1.000	140	13	8.50	8.50	Somatic	0.000	5
461282	1	202,137,598	G	C	ENSG00000216997	3	5_prime_flanking_region	337	0	0.00	531	0	0.00	0.00	Reference	1.000	432	106	19.70	19.70	Somatic	0.000	4
461282	1	205,636,652	G	T	CD55	3	3_prime_flanking_region	183	0	0.00	265	0	0.00	0.00	Reference	1.000	203	71	25.91	25.91	Somatic	0.000	4
461282	1	206,247,494	C	A	PLXNA2	3	3_prime_flanking_region	862	14	1.60	620	414	40.04	40.04	Somatic	0.000	774	654	45.80	45.80	Somatic	0.000	1
461282	1	207,756,911	C	T	-	3	-	409	4	0.97	327	182	35.76	35.76	Somatic	0.000	290	253	46.59	46.59	Somatic	0.000	1
461282	1	211,487,078	G	A	RPS6KC1	2	intronic	349	1	0.29	375	228	37.81	37.81	Somatic	0.000	290	222	43.36	43.36	Somatic	0.000	1
461282	1	211,693,112	G	A	LOC64330	3	intronic	526	0	0.00	829	36	4.16	4.16	Somatic	0.000	594	357	37.54	37.54	Somatic	0.000	2
461282	1	212,067,392	G	C	-	3	-	380	0	0.00	682	12	1.73	1.73	Somatic	0.006	481	328	40.54	40.54	Somatic	0.000	0
461282	1	212,143,723	C	T	-	3	-	598	6	0.99	456	290	38.87	38.87	Somatic	0.000	487	378	43.70	43.70	Somatic	0.000	1
461282	1	212,433,096	T	C	MYT1L	3	intronic	584	2	0.34	594	342	36.54	36.54	Somatic	0.000	522	441	45.79	45.79	Somatic	0.000	1
461282	1	215,352,979	G	A	ENSG00000219497	3	3_prime_flanking_region	351	0	0.00	467	93	16.61	16.61	Somatic	0.000	347	264	43.21	43.21	Somatic	0.000	2
461282	1	216,685,599	C	G	ENSG0000021983	3	3_prime_flanking_region	423	0	0.00	602	2	0.25	0.25	Reference	0.429	785	212	21.26	21.26	Somatic	0.000	4
461282	1	216,900,055	C	G	LOC100134042	3	intronic	434	1	0.23	542	1	0.18	0.18	Reference	0.569	520	156	23.08	23.08	Somatic	0.000	4
461282	1	216,929,839	T	C	-	3	-	369	1	0.27</													

461282	2	155,233,960	G	A	ENSG00000206718	2	5_prime_flanking_region	159	1	0.63	127	66	34.20	34.20	Somatic	0.000	103	69	40.12	40.12	Somatic	0.000	1
461282	2	158,461,558	C	A	ACVR1	3	5_prime_flanking_region	477	4	0.83	506	271	34.88	34.88	Somatic	0.000	390	355	47.65	47.65	Somatic	0.000	1
461282	2	161,166,477	C	T	SCN9A	3	5_prime_flanking_region	727	4	0.55	521	108	17.17	17.17	Somatic	0.000	460	339	42.43	42.43	Somatic	0.000	2
461282	2	166,739,964	T	C	WIPF1	3	5_prime_flanking_region	619	7	1.12	335	204	37.85	37.85	Somatic	0.000	335	236	41.33	41.33	Somatic	0.000	1
461282	2	175,267,091	A	G	LOC100132133	2	-	320	6	1.84	262	135	34.01	34.01	Somatic	0.000	231	152	39.69	39.69	Somatic	0.000	1
461282	2	177,017,205	G	A	-	2	-	492	0	0.00	480	0	0.00	0.00	Reference	1.000	465	150	24.39	24.39	Somatic	0.000	4
461282	2	184,433,466	C	T	-	3	-	167	1	0.60	212	124	36.90	36.90	Somatic	0.000	198	162	45.00	45.00	Somatic	0.000	1
461282	2	188,407,539	G	A	LOC344328	3	3_prime_flanking_region	345	2	0.58	554	341	38.10	38.10	Somatic	0.000	353	332	48.47	48.47	Somatic	0.000	1
461282	2	192,312,819	C	G	-	466	12	2.51	487	233	32.36	32.36	Somatic	0.000	383	344	47.32	47.32	Somatic	0.000	1		
461282	2	195,113,778	A	G	LOC100132133	2	5_prime_flanking_region	326	7	2.10	383	264	40.50	40.50	Somatic	0.000	347	306	46.86	46.86	Somatic	0.000	1
461282	2	208,071,761	T	A	-	3	-	99	0	0.00	107	0	0.00	0.00	Reference	1.000	51	59	53.64	53.64	Somatic	0.000	0
461282	2	210,871,258	A	T	MYL1	3	intronic	519	3	0.57	395	217	35.46	35.46	Somatic	0.000	363	337	46.14	46.14	Somatic	0.000	1
461282	2	212,120,506	G	A	ERBB4	3	intronic	347	4	1.14	290	192	39.83	39.83	Somatic	0.000	275	237	46.29	46.29	Somatic	0.000	1
461282	2	213,117,275	C	T	ERBB4	3	5_prime_flanking_region	385	0	0.00	579	2	0.34	0.34	Reference	0.654	343	269	43.95	43.95	Somatic	0.000	3
461282	2	213,836,929	G	A	SPAG16	3	5_prime_flanking_region	118	0	0.00	141	21	12.96	12.96	Somatic	0.000	138	86	38.39	38.39	Somatic	0.000	2
461282	2	214,832,715	G	A	SPAG16	3	intronic	79	0	0.00	103	0	0.00	0.00	Reference	1.000	51	23	31.08	31.08	Somatic	0.000	4
461282	2	215,217,895	C	T	LOC100132133	3	intronic	818	0	0.00	1000	112	10.07	10.07	Somatic	0.000	537	376	41.18	41.18	Somatic	0.000	2
461282	2	215,573,902	G	A	ABCAL2	1	missense	277	1	0.36	336	235	41.16	41.16	Somatic	0.000	307	232	43.04	43.04	Somatic	0.000	1
461282	2	221,562,078	A	G	ENSG00000208071	3	3_prime_flanking_region	545	5	0.91	379	220	36.73	36.73	Somatic	0.000	398	296	42.65	42.65	Somatic	0.000	1
461282	2	224,503,022	A	T	WDFY1	3	intronic	482	8	1.63	372	276	42.59	42.59	Somatic	0.000	334	314	48.46	48.46	Somatic	0.000	1
461282	2	225,811,492	G	A	-	3	-	301	3	0.99	302	148	32.89	32.89	Somatic	0.000	203	127	38.48	38.48	Somatic	0.000	1
461282	2	240,330,641	G	A	ENSG00000213827	3	intronic	199	0	0.00	106	0	0.00	0.00	Reference	1.000	136	87	39.01	39.01	Somatic	0.000	3
461282	2	241,802,599	C	G	ANOT	3	intronic	37	0	0.00	68	0	0.00	0.00	Reference	1.000	134	45	25.14	25.14	Somatic	0.000	4
461282	3	8,690,018	C	T	C3orf32	3	intronic	28	0	0.00	105	1	0.94	0.94	Reference	0.791	61	33	35.11	35.11	Somatic	0.000	3
461282	3	16,311,620	C	G	OXNAD1	2	intronic	422	0	0.00	734	1	0.14	0.14	Reference	0.635	522	131	20.06	20.06	Somatic	0.000	4
461282	3	17,956,663	G	C	-	3	-	305	0	0.00	470	0	0.00	0.00	Reference	1.000	397	105	20.92	20.92	Somatic	0.000	4
461282	3	17,982,076	G	T	-	3	-	550	0	0.00	896	2	0.22	0.22	Reference	0.385	507	354	41.11	41.11	Somatic	0.000	3
461282	3	21,018,073	T	C	LOC729684	3	5_prime_flanking_region	292	0	0.00	561	0	0.00	0.00	Reference	1.000	360	101	21.91	21.91	Somatic	0.000	4
461282	3	23,463,558	C	G	UBE2E2	3	intronic	270	0	0.00	387	1	0.26	0.26	Reference	0.591	367	43	10.49	10.49	Somatic	0.000	5
461282	3	25,181,483	C	A	RARB	3	5_prime_flanking_region	412	0	0.00	482	0	0.00	0.00	Reference	1.000	510	165	24.44	24.44	Somatic	0.000	4
461282	3	28,676,513	C	T	LOC645206	3	intronic	343	0	0.00	545	0	0.00	0.00	Reference	1.000	397	125	23.95	23.95	Somatic	0.000	4
461282	3	30,243,336	T	C	-	3	-	756	0	0.00	940	1	0.11	0.11	Reference	0.557	713	214	23.09	23.09	Somatic	0.000	4
461282	3	30,683,759	G	C	GADL1	3	5_prime_flanking_region	110	1	0.90	72	35	32.71	32.71	Somatic	0.000	57	45	44.12	44.12	Somatic	0.000	1
461282	3	52,041,461	C	G	WRSL5A	3	intronic	303	0	0.00	501	0	0.00	0.00	Reference	1.000	631	230	25.08	25.08	Somatic	0.000	4
461282	3	57,843,128	G	C	FNKf67	3	intronic	272	0	0.00	264	0	0.00	0.00	Reference	1.000	224	91	28.89	28.89	Somatic	0.000	4
461282	3	59,001,965	T	C	-	3	-	318	2	0.63	339	152	30.96	30.96	Somatic	0.000	200	226	53.05	53.05	Somatic	0.000	1
461282	3	59,759,933	C	G	FHT1	3	intronic	367	0	0.00	427	152	0	0.00	Reference	1.000	387	127	24.71	24.71	Somatic	0.000	4
461282	3	60,568,115	G	A	FHT1	3	intronic	271	2	0.73	260	162	38.39	38.39	Somatic	0.000	216	209	49.18	49.18	Somatic	0.000	1
461282	3	63,439,568	G	A	SYNPR	3	intronic	1014	9	0.88	696	388	35.79	35.79	Somatic	0.000	753	573	43.21	43.21	Somatic	0.000	1
461282	3	68,329,542	C	A	FAM19A1	3	intronic	357	1	0.28	320	210	39.62	39.62	Somatic	0.000	313	226	41.93	41.93	Somatic	0.000	1
461282	3	68,648,086	T	C	FAM19A1	2	intronic	455	4	0.87	363	266	42.29	42.29	Somatic	0.000	357	327	47.81	47.81	Somatic	0.000	1
461282	3	70,542,606	C	T	-	3	-	195	0	0.00	243	134	35.54	35.54	Somatic	0.000	178	117	39.66	39.66	Somatic	0.000	1
461282	3	70,628,127	G	A	-	2	-	285	3	1.04	171	122	41.64	41.64	Somatic	0.000	185	133	41.82	41.82	Somatic	0.000	1
461282	3	74,417,707	C	G	CNTN3	3	intronic	106	0	0.00	242	0	0.00	0.00	Reference	1.000	81	60	42.55	42.55	Somatic	0.000	3
461282	3	76,148,348	G	A	ROBO2	3	intronic	162	0	0.00	357	0	0.00	0.00	Reference	1.000	196	149	43.19	43.19	Somatic	0.000	3
461282	3	76,606,657	G	C	ROBO2	3	intronic	761	0	0.00	844	1	0.12	0.12	Reference	0.528	795	244	23.48	23.48	Somatic	0.000	4
461282	3	76,832,945	C	T	ROBO2	3	intronic	317	8	2.46	354	244	40.80	40.80	Somatic	0.000	294	222	43.02	43.02	Somatic	0.000	1
461282	3	78,741,642	T	A	ROBO1	3	intronic	118	0	0.00	103	0	0.00	0.00	Reference	1.000	89	25	21.93	21.93	Somatic	0.000	4
461282	3	79,493,455	G	A	-	3	-	323	0	0.00	672	0	0.00	0.00	Reference	1.000	571	52	8.35	8.35	Somatic	0.000	5
461282	3	85,970,954	A	G	CADM2	3	intronic	391	2	0.51	396	215	35.19	35.19	Somatic	0.000	360	300	45.45	45.45	Somatic	0.000	1
461282	3	86,266,195	A	G	ENSG00000201410	3	3_prime_flanking_region	119	0	0.00	111	47	29.75	29.75	Somatic	0.000	71	72	50.35	50.35	Somatic	0.000	1
461282	3	97,024,427	G	T	-	3	-	132	0	0.00	221	0	0.00	0.00	Reference	1.000	158	33	17.28	17.28	Somatic	0.000	4
461282	3	100,106,262	G	C	DCBLD2	2	5_prime_flanking_region	547	0	0.00	650	1	0.15	0.15	Reference	0.546	463	155	25.08	25.08	Somatic	0.000	4
461282	3	101,868,867	C	G	TMEV45A	3	5_prime_flanking_region	440	0	0.00	591	0	0.00	0.00	Reference	1.000	575	177	23.54	23.54	Somatic	0.000	4
461282	3	102,050,460	A	G	NFKBIZ	2	intronic	226	0	0.00	475	0	0.00	0.00	Reference	1.000	285	204	41.72	41.72	Somatic	0.000	3
461282	3																						

461282	4	45,673,931	T	C	C	GABRB1	3	5_prime_flanking_region	238	0	0.00	290	0	0.00	0.00	Reference	1,000	246	70	22.15	22.15	Somatic	0.000	4	
461282	4	47,110,218	T	C	A	-	3	-	intronic	467	2	0.43	443	260	36.98	36.98	Somatic	0.000	424	325	43.39	43.39	Somatic	0.000	1
461282	4	58,161,405	G	A	-	-	3	-	intronic	242	0	0.00	278	144	34.12	34.12	Somatic	0.000	208	129	38.28	38.28	Somatic	0.000	1
461282	4	58,357,175	G	A	-	-	3	-	intronic	361	1	0.28	345	206	37.39	37.39	Somatic	0.000	343	279	44.86	44.86	Somatic	0.000	1
461282	4	60,059,073	A	G	ENSG00000199780	3	5_prime_flanking_region	62	2	3.13	58	27	31.76	31.76	Somatic	0.000	45	33	42.31	42.31	Somatic	0.000	1		
461282	4	63,076,605	A	G	-	-	2	-	intronic	298	5	1.65	238	157	39.75	39.75	Somatic	0.000	197	162	45.13	45.13	Somatic	0.000	1
461282	4	63,142,207	A	G	-	-	3	-	intronic	128	0	0.00	328	2	0.61	0.61	Reference	0,521	164	54	24.77	24.77	Somatic	0.000	4
461282	4	63,460,540	T	A	-	-	3	-	intronic	183	1	0.54	134	97	41.99	41.99	Somatic	0.000	105	85	44.74	44.74	Somatic	0.000	1
461282	4	63,858,921	A	G	LOC644578	3	5_prime_flanking_region	168	0	0.00	223	0	0.00	0.00	Reference	1,000	154	51	20.82	20.82	Somatic	0.000	4		
461282	4	64,492,852	G	C	-	-	3	-	intronic	231	0	0.00	481	1	0.21	0.21	Reference	0,677	395	34	7.93	7.93	Somatic	0.000	5
461282	4	65,523,135	T	T	T	ENSG00000210740	3	5_prime_flanking_region	219	5	2.23	238	167	41.23	41.23	Somatic	0.000	190	182	48.32	48.32	Somatic	0.000	1	
461282	4	66,356,359	T	T	T	SLC44A	3	5_prime_flanking_region	54	0	0.00	64	0	0.00	0.00	Reference	1,000	37	24	39.34	39.34	Somatic	0.000	3	
461282	4	72,677,193	C	T	T	FLJ12993	3	5_prime_flanking_region	659	0	0.00	927	5	0.54	0.54	Somatic	0,069	581	418	41.84	41.84	Somatic	0.000	0	
461282	4	83,705,632	C	T	T	ARHGAP24	3	intronic	178	1	0.56	237	111	31.90	31.90	Somatic	0.000	222	186	45.59	45.59	Somatic	0.000	1	
461282	4	85,489,285	G	A	-	-	3	-	intronic	313	0	0.00	550	0	0.00	0.00	Reference	1,000	297	196	39.76	39.76	Somatic	0.000	3
461282	4	87,036,713	C	T	T	GRID2	3	intronic	699	4	0.57	548	361	39.71	39.71	Somatic	0.000	455	369	44.78	44.78	Somatic	0.000	1	
461282	4	93,588,801	T	A	GRID2	3	intronic	25	0	0.00	49	32	39.51	39.51	Somatic	0.000	27	21	43.75	43.75	Somatic	0.000	1		
461282	4	93,819,384	C	A	GRID2	3	intronic	293	0	0.00	225	19	7.79	7.79	Somatic	0.000	151	112	42.59	42.59	Somatic	0.000	2		
461282	4	94,109,855	C	T	T	PDLM5	2	intronic	362	0	0.00	295	34	10.33	10.33	Somatic	0.000	186	118	38.82	38.82	Somatic	0.000	2	
461282	4	95,634,572	T	C	A	ENSG00000201744	3	3_prime_flanking_region	181	0	0.00	230	1	0.43	0.43	Reference	0,918	209	73	25.89	25.89	Somatic	0.000	4	
461282	4	97,275,841	G	C	PP3CA	3	3_prime_flanking_region	210	0	0.00	382	0	0.00	0.00	Reference	1,000	241	63	20.72	20.72	Somatic	0.000	4		
461282	4	102,331,798	G	C	A	CENPE	3	intronic	417	0	0.00	925	1	0.11	0.11	Reference	0,691	669	219	24.66	24.66	Somatic	0.000	4	
461282	4	104,294,138	G	A	-	-	3	-	intronic	721	6	0.83	393	226	36.51	36.51	Somatic	0.000	403	343	45.98	45.98	Somatic	0.000	1
461282	4	105,472,730	G	A	-	-	3	-	intronic	230	0	0.00	238	127	34.79	34.79	Somatic	0.000	123	103	45.58	45.58	Somatic	0.000	1
461282	4	110,535,805	T	C	SEC24B	3	5_prime_flanking_region	253	0	0.00	322	1	0.31	0.31	Reference	0,564	285	98	25.59	25.59	Somatic	0.000	4		
461282	4	116,080,756	G	T	NDST4	3	intronic	102	1	0.97	95	33	25.78	25.78	Somatic	0.000	70	18	20.45	20.45	Somatic	0.000	0		
461282	4	122,843,517	G	A	ANX5	3	5_prime_flanking_region	817	8	0.97	635	363	36.37	36.37	Somatic	0.000	531	358	40.27	40.27	Somatic	0.000	1		
461282	4	125,676,203	C	A	-	-	3	-	intronic	327	3	0.91	290	188	39.33	39.33	Somatic	0.000	258	219	45.91	45.91	Somatic	0.000	1
461282	4	128,267,891	C	G	-	-	2	-	intronic	254	0	0.00	494	1	0.20	0.20	Reference	0,662	408	127	23.74	23.74	Somatic	0.000	4
461282	4	128,270,308	G	C	-	-	3	-	intronic	376	2	0.53	419	164	28.13	28.13	Somatic	0.000	293	226	43.55	43.55	Somatic	0.000	1
461282	4	130,707,449	G	A	-	-	3	-	intronic	267	0	0.00	427	0	0.00	0.00	Reference	1,000	330	18	5.17	5.17	Somatic	0.000	5
461282	4	134,980,64	G	C	-	-	3	-	intronic	122	0	0.00	307	0	0.00	0.00	Reference	1,000	50	47	44.76	44.76	Somatic	0.000	1
461282	4	136,606,086	G	C	ENSG00000201788	3	5_prime_flanking_region	76	1	1.30	84	66	44.00	44.00	Somatic	0.000	223	27	10.80	10.80	Somatic	0.000	5		
461282	4	138,159,537	G	C	LOC729578	3	intronic	255	0	0.00	427	0	0.00	0.00	Reference	1,000	204	66	16.33	16.33	Somatic	0.000	4		
461282	4	155,068,314	G	A	-	-	3	-	intronic	398	0	0.00	649	0	0.00	0.00	Reference	1,000	497	158	24.12	24.12	Somatic	0.000	4
461282	4	158,373,923	T	A	GRIA2	3	intronic	191	0	0.00	269	0	0.00	0.00	Reference	1,000	193	100	34.13	34.13	Somatic	0.000	3		
461282	4	162,847,384	G	A	FSTL5	3	intronic	105	0	0.00	153	95	38.31	38.31	Somatic	0.000	156	107	40.68	40.68	Somatic	0.000	1		
461282	4	164,250,721	G	C	LOC729971	3	intronic	509	0	0.00	741	1	0.13	0.13	Reference	0,599	641	161	20.07	20.07	Somatic	0.000	4		
461282	4	165,517,333	G	A	-	-	3	-	intronic	357	0	0.00	601	0	0.00	0.00	Reference	1,000	93	67	41.88	41.88	Somatic	0.000	4
461282	4	166,019,377	T	C	LOC653794	3	intronic	895	0	0.00	1187	3	0.25	0.25	Somatic	0,425	624	429	40.74	40.74	Somatic	0.000	0		
461282	4	171,500,500	G	A	-	-	3	-	intronic	589	0	0.00	881	118	11.81	11.81	Somatic	0.000	564	408	41.98	41.98	Somatic	0.000	2
461282	4	176,005,797	C	A	GLRA3	3	5_prime_flanking_region	193	0	0.00	448	0	0.00	0.00	Reference	1,000	280	93	24.93	24.93	Somatic	0.000	4		
461282	4	176,088,345	C	T	ADAM29	3	intronic	66	1	1.49	63	41	39.42	39.42	Somatic	0.000	40	29	42.03	42.03	Somatic	0.000	1		
461282	4	179,103,688	A	C	LOC285501	3	intronic	307	4	1.29	240	172	41.75	41.75	Somatic	0.000	215	172	44.44	44.44	Somatic	0.000	1		
461282	4	179,305,794	G	C	-	-	3	-	intronic	107	0	0.00	210	0	0.00	0.00	Reference	1,000	94	62	39.74	39.74	Somatic	0.000	3
461282	4	182,535,622	G	C	-	-	3	-	intronic	265	8	2.93	264	121	31.43	31.43	Somatic	0.000	224	153	40.58	40.58	Somatic	0.000	1
461282	4	183,957,657	G	A	ODZ3	2	intronic	84	0	0.00	139	0	0.00	0.00	Reference	1,000	93	67	41.88	41.88	Somatic	0.000	3		
461282	4	185,669,430	G	C	IRF2	3	5_prime_flanking_region	622	0	0.00	1015	1	0.10	0.10	Reference	0,622	1038	106	9.27	9.27	Somatic	0.000	5		
461282	4	186,183,501	G	A	LOC100129240	3	5_prime_flanking_region	628	1	0.16	668	0	0.00	0.00	Reference	1,000	551	387	41.26	41.26	Somatic	0.000	3		
461282	4	189,399,429	G	A	-	-	284	3	1.05	183	109	37.33	37.33	Somatic	0.000	222	188	45.85	45.85	Somatic	0.000	1			
461282	4	189,695,236	A	T	GDNF	2	intronic	191	2	1.04	140	75	34.88	34.88	Somatic	0.000	180	158	46.75	46.75	Somatic	0.000	1		
461282	4	190,325,514	G	C	MRPS30	3	3_prime_flanking_region	946	0	0.00	1112	0	0.00	0.00	Reference	1,000	876	312	47.79	47.79	Somatic	0.000	4		
461282	4	193,046	T	G	-	-	281	0	0.00	381	0	0.00	0.00	Reference	1,000	294	101	25.57	25.57	Somatic	0.000	4			
461282	4	195,932,928	G	C	-	-	384	0	0.00	373	1	0.27	0.27	Reference	0,493	506	30	5.60	5.60	Somatic	0.000	5			
461282	4	200																							

461282	6	14,814,267	C	T	-	ENSG00000217585	3	-	5_prime_flanking_region	912	0	0.00	794	1	0.13	0.13	Reference	0.466	576	365	38.79	38.79	Somatic	0.000	3
461282	6	16,185,097	G	A	GMPR	3	intronic	495	1	0.20	371	233	38.58	38.58	Somatic	0.000	470	415	46.89	46.89	Somatic	0.000	1		
461282	6	16,391,667	C	T	ENSG00000209103	3	3_prime_flanking_region	542	4	0.73	504	313	38.31	38.31	Somatic	0.000	552	390	41.40	41.40	Somatic	0.000	1		
461282	6	17,326,480	C	T	LRRK16A	3	intronic	580	7	1.19	394	240	37.85	37.85	Somatic	0.000	478	421	46.83	46.83	Somatic	0.000	1		
461282	6	28,309,130	C	G	ZNF193	3	3_prime_untranslated_region	784	0	0.00	956	1	0.10	0.10	Reference	0.550	495	373	42.97	42.97	Somatic	0.000	3		
461282	6	31,345,895	C	G	HLA-C	3	intronic	434	1	0.23	350	1	0.28	0.28	Reference	0.695	390	29	6.92	6.92	Somatic	0.000	5		
461282	6	31,798,202	G	C	MSH5	3	5_prime_flanking_region	2024	0	0.00	3792	1	0.03	0.03	Reference	0.657	3600	1253	25.82	25.82	Somatic	0.000	4		
461282	6	35,150,027	C	G	ANKS1A	3	intronic	158	0	0.00	186	1	0.53	0.53	Reference	0.553	368	132	26.40	26.40	Somatic	0.000	4		
461282	6	37,013,429	C	T	PHE16	3	5_prime_flanking_region	474	0	0.00	493	17	3.33	3.33	Somatic	0.000	434	350	42.44	42.44	Somatic	0.000	2		
461282	6	37,126,590	G	A	RPL12P2	2	intronic	325	1	0.21	364	54	12.92	12.92	Somatic	0.000	368	321	44.65	44.65	Somatic	0.000	2		
461282	6	37,181,554	G	C	C6orf129	3	5_prime_flanking_region	559	0	0.00	1001	0	0.00	0.00	Reference	0.342	1207	399	23.67	23.67	Somatic	0.000	4		
461282	6	38,181,809	G	C	ZFAND3	3	intronic	417	0	0.00	541	0	0.00	0.00	Reference	1.000	148	245	24.45	24.45	Somatic	0.000	4		
461282	6	39,872,040	G	A	DAAM2	2	intronic	562	5	0.88	402	230	36.39	36.39	Somatic	0.000	476	415	46.58	46.58	Somatic	0.000	1		
461282	6	40,580,760	G	A	LRFN2	3	intronic	431	0	0.00	393	0	0.00	0.00	Reference	1.000	685	62	8.30	8.30	Somatic	0.000	5		
461282	6	41,983,176	C	T	MED20	3	intronic	836	0	0.00	876	0	0.00	0.00	Reference	1.000	944	279	22.81	22.81	Somatic	0.000	4		
461282	6	46,063,176	G	C	CLIC5	3	intronic	575	0	0.00	696	0	0.00	0.00	Reference	1.000	656	215	24.68	24.68	Somatic	0.000	4		
461282	6	48,128,727	G	A	C6orf138	2	intronic	302	1	0.33	450	1	0.22	0.22	Reference	0.839	409	100	19.65	19.65	Somatic	0.000	4		
461282	6	48,657,743	A	C	-	3	-	255	0	0.00	443	0	0.00	0.00	Reference	1.000	264	106	28.65	28.65	Somatic	0.000	4		
461282	6	48,719,979	T	G	-	3	-	206	0	0.00	283	0	0.00	0.00	Reference	1.000	153	47	23.50	23.50	Somatic	0.000	4		
461282	6	49,272,795	A	G	-	3	-	300	0	0.00	590	1	0.17	0.17	Reference	0.663	370	27	6.80	6.80	Somatic	0.000	5		
461282	6	55,927,674	A	G	ENSG00000214604	3	5_prime_flanking_region	251	3	1.18	270	186	40.79	40.79	Somatic	0.000	236	198	45.62	45.62	Somatic	0.000	1		
461282	6	58,446,664	G	A	ENSG00000214563	3	5_prime_flanking_region	412	0	0.00	912	4	0.44	0.44	Somatic	0.225	492	368	42.79	42.79	Somatic	0.000	0		
461282	6	63,043,004	C	G	KHDRBS2	2	intronic	292	0	0.00	308	0	0.00	0.00	Reference	1.000	277	33	10.65	10.65	Somatic	0.000	5		
461282	6	70,088,417	C	T	BA3	3	intronic	573	5	0.87	328	162	33.06	33.06	Somatic	0.000	258	219	45.91	45.91	Somatic	0.000	1		
461282	6	70,101,232	C	T	BA3	3	intronic	215	0	0.00	510	1	0.20	0.20	Reference	0.704	393	154	28.15	28.15	Somatic	0.000	4		
461282	6	72,863,306	T	C	RIMS1	3	intronic	271	0	0.00	561	0	0.00	0.00	Reference	1.000	401	120	23.03	23.03	Somatic	0.000	4		
461282	6	74,681,729	G	A	-	2	-	364	1	0.27	326	162	33.20	33.20	Somatic	0.000	240	234	49.37	49.37	Somatic	0.000	1		
461282	6	77,695,935	G	T	-	3	-	193	0	0.00	308	0	0.00	0.00	Reference	1.000	214	76	26.21	26.21	Somatic	0.000	4		
461282	6	79,309,279	T	C	-	3	-	292	3	1.02	242	146	37.63	37.63	Somatic	0.000	168	126	42.86	42.86	Somatic	0.000	1		
461282	6	81,670,630	T	C	-	2	-	517	1	0.19	741	2	0.27	0.27	Reference	0.633	403	27	10.56	10.56	Somatic	0.000	3		
461282	6	82,003,906	G	C	-	3	-	455	0	0.00	620	1	0.16	0.16	Reference	0.577	537	165	23.50	23.50	Somatic	0.000	4		
461282	6	84,573,376	T	C	RIPPLY2	2	5_prime_flanking_region	292	3	0.02	355	212	37.39	37.39	Somatic	0.000	269	368	46.94	46.94	Somatic	0.000	1		
461282	6	85,016,763	T	G	KIAA0109	3	5_prime_flanking_region	473	6	1.25	418	276	39.77	39.77	Somatic	0.000	383	346	47.46	47.46	Somatic	0.000	1		
461282	6	87,195,736	C	G	LOC643926	3	5_prime_flanking_region	561	1	0.18	544	2	0.37	0.37	Reference	1.000	621	417	40.47	40.47	Somatic	0.000	3		
461282	6	94,853,308	G	T	-	2	-	123	0	0.00	218	1	0.46	0.46	Reference	0.489	401	262	39.52	39.52	Somatic	0.000	3		
461282	6	95,387,627	C	T	-	2	-	395	0	0.00	459	277	37.64	37.64	Somatic	0.000	412	349	45.86	45.86	Somatic	0.000	1		
461282	6	95,393,995	C	T	-	3	-	173	0	0.00	467	4	0.85	0.85	Somatic	0.287	178	147	45.23	45.23	Somatic	0.000	0		
461282	6	95,958,588	T	C	-	3	-	272	0	0.00	473	2	0.42	0.42	Reference	0.404	318	206	39.31	39.31	Somatic	0.000	3		
461282	6	96,370,388	T	A	-	3	-	329	6	1.75	397	215	35.13	35.13	Somatic	0.000	265	215	44.79	44.79	Somatic	0.000	1		
461282	6	97,057,031	G	A	KIAA0776	3	5_prime_flanking_region	314	0	0.00	430	0	0.00	0.00	Reference	1.000	302	109	26.52	26.52	Somatic	0.000	4		
461282	6	99,053,097	G	A	-	2	-	558	8	1.41	629	425	40.32	40.32	Somatic	0.000	550	469	46.03	46.03	Somatic	0.000	1		
461282	6	102,372,819	C	T	GRIK2	3	intronic	909	0	0.00	1707	2	0.12	0.12	Reference	0.429	1088	357	24.71	24.71	Somatic	0.000	4		
461282	6	102,458,818	C	G	GRIK2	3	intronic	207	0	0.00	292	0	0.00	0.00	Reference	1.000	262	76	22.49	22.49	Somatic	0.000	4		
461282	6	107,399,365	G	T	-	3	-	247	0	0.00	313	40	11.33	11.33	Somatic	0.000	260	160	38.10	38.10	Somatic	0.000	2		
461282	6	111,040,547	G	A	CDC2L6	3	3_prime_untranslated_region	425	5	1.16	454	303	40.03	40.03	Somatic	0.000	466	393	45.75	45.75	Somatic	0.000	1		
461282	6	120,257,034	C	T	LOC728727	2	3_prime_flanking_region	1472	3	0.20	1644	70	4.08	4.08	Somatic	0.000	1117	776	40.99	40.99	Somatic	0.000	2		
461282	6	121,762,583	T	C	GJA1	2	5_prime_flanking_region	386	2	0.52	229	140	37.94	37.94	Somatic	0.000	227	192	45.82	45.82	Somatic	0.000	1		
461282	6	123,628,703	C	G	TRDN	3	intronic	22	0	0.00	74	0	0.00	0.00	Reference	1.000	31	15	32.61	32.61	Somatic	0.000	3		
461282	6	124,807,602	A	C	CKAN12	3	intronic	32	0	0.00	80	0	0.00	0.00	Reference	1.000	40	9	18.37	18.37	Somatic	0.000	4		
461282	6	126,610,226	C	T	ENSG00000213133	3	3_prime_flanking_region	608	0	0.00	661	0	0.00	0.00	Reference	1.000	486	139	22.24	22.24	Somatic	0.000	4		
461282	6	126,813,726	G	A	MIRN58	3	5_prime_flanking_region	76	0	0.00	122	1	0.81	0.81	Reference	0.618	67	50	42.74	42.74	Somatic	0.000	3		
461282	6	128,492,385	G	T	PTPK	3	intronic	376	0	0.00	635	1	0.16	0.16	Reference	0.629	470	170	26.56	26.56	Somatic	0.000	4		
461282	6	131,086,640	C	T	-	3	-	681	3	0.44	1055	107	9.21	9.21	Somatic	0.000	701	440	38.56	38.56	Somatic	0.000	2		
461282	6	133,531,928	T	A	AKAP7	3	5_prime_flanking_region	613	5	0.81	427	236	35.60	35.60	Somatic	0.000	490	413	47.74	47.74	Somatic	0.000	1		
461282	6	134,772,921	T	C	ENSG00000220113	2	3_prime_flanking_region	407	0	0.00	1089	0	0.00	0.00	Reference	1.000	668	228	25.45	25.45	Somatic	0.000	4		
461282	6	140,965,																							

461282	7	145.349,032	G	C	ENSG00000208307	3	3_prime_flanking_region	262	1	0.04	571	25	4.19	4.19	Somatic	0.001	519	76	12.77	12.77	Somatic	0.000	0
461282	7	150.699,278	G	C	NUB1	3	intronic	80	0	0.00	118	0	0.00	0.00	Reference	1.000	167	58	25.78	25.78	Somatic	0.000	4
461282	7	152.949,202	G	A	-	3	-	318	0	0.00	368	271	42.41	42.41	Somatic	0.000	253	281	52.62	52.62	Somatic	0.000	1
461282	7	153.495,696	C	T	DPP6	3	intronic	225	1	0.44	196	115	36.98	36.98	Somatic	0.000	241	161	40.05	40.05	Somatic	0.000	1
461282	7	157.002,857	C	T	PTPRN2	3	5_prime_flanking_region	149	2	1.32	249	125	33.42	33.42	Somatic	0.000	249	217	46.57	46.57	Somatic	0.000	1
461282	7	157.312,326	C	T	CSMD1	3	intronic	158	1	0.63	146	64	30.48	30.48	Somatic	0.000	193	176	47.70	47.70	Somatic	0.000	1
461282	8	2,848,321	C	T	CSMD1	3	intronic	438	0	0.00	726	3	0.41	0.41	Somatic	0.245	465	319	40.69	40.69	Somatic	0.000	0
461282	8	3,418,024	T	G	CSMD1	3	intronic	78	0	0.00	167	0	0.00	0.00	Reference	1.000	104	37	26.24	26.24	Somatic	0.000	4
461282	8	4,141,771	C	I	CSMD1	2	intronic	108	0	0.00	170	0	0.00	0.00	Reference	1.000	113	90	44.33	44.33	Somatic	0.000	3
461282	8	11,655,652	C	G	FDFT1	3	5_prime_flanking_region	240	0	0.00	319	0	0.00	0.00	Reference	1.000	355	114	22.40	22.40	Somatic	0.000	4
461282	8	12,038,338	G	C	SGCZ	3	intronic	324	0	0.00	466	0	0.00	0.00	Reference	1.000	340	123	26.57	26.57	Somatic	0.000	4
461282	8	14,677,850	G	C	-	3	-	301	0	0.00	386	0	0.00	0.00	Reference	1.000	306	91	22.22	22.22	Somatic	0.000	4
461282	8	15,306,948	A	C	-	3	-	138	0	0.00	201	0	0.00	0.00	Reference	1.000	113	85	42.93	42.93	Somatic	0.000	3
461282	8	20,488,154	T	C	ENSG00000210340	3	5_prime_flanking_region	592	0	0.00	736	3	0.41	0.41	Somatic	0.172	549	385	41.22	41.22	Somatic	0.000	0
461282	8	22,640,037	C	T	PEPB4	3	intronic	909	9	0.98	528	256	32.65	32.65	Somatic	0.000	962	687	41.66	41.66	Somatic	0.000	1
461282	8	24,070,925	C	T	-	3	-	654	0	0.00	1003	3	0.30	0.30	Somatic	0.222	532	196	26.92	26.92	Somatic	0.000	0
461282	8	26,169,589	G	A	PPPR2R2A	3	5_prime_flanking_region	262	0	0.00	213	102	32.38	32.38	Somatic	0.000	243	161	39.85	39.85	Somatic	0.000	1
461282	8	29,298,706	A	T	DUSP4	3	5_prime_flanking_region	383	6	1.54	318	174	35.37	35.37	Somatic	0.000	294	217	42.47	42.47	Somatic	0.000	1
461282	8	34,312,711	G	A	RPL10AP3	3	5_prime_flanking_region	429	0	0.00	749	2	0.27	0.27	Reference	0.406	549	183	25.00	25.00	Somatic	0.000	4
461282	8	35,619,660	C	T	UNC5D	3	intronic	344	0	0.00	330	2	0.60	0.60	Reference	0.243	245	186	43.16	43.16	Somatic	0.000	3
461282	8	36,228,464	T	G	ENSG00000210631	3	5_prime_flanking_region	175	1	0.57	158	74	31.90	31.90	Somatic	0.000	136	100	42.37	42.37	Somatic	0.000	1
461282	8	37,807,668	C	G	GPR124	3	intronic	64	0	0.00	126	88	41.12	41.12	Somatic	0.000	158	176	52.69	52.69	Somatic	0.000	1
461282	8	54,888,201	T	C	ATP6V1H	3	intronic	404	0	0.00	773	85	9.91	9.91	Somatic	0.000	431	295	40.63	40.63	Somatic	0.000	2
461282	8	57,873,011	C	A	-	3	-	321	1	0.31	407	231	36.21	36.21	Somatic	0.000	341	267	43.91	43.91	Somatic	0.000	1
461282	8	63,754,094	G	A	NKAIN3	3	intronic	346	5	1.42	435	263	37.68	37.68	Somatic	0.000	447	360	44.61	44.61	Somatic	0.000	1
461282	8	72,076,678	G	C	-	3	-	184	1	0.54	140	96	40.68	40.68	Somatic	0.000	135	99	42.31	42.31	Somatic	0.000	1
461282	8	72,781,967	G	A	-	3	-	779	0	0.00	846	1	0.12	0.12	Reference	0.772	654	204	23.78	23.78	Somatic	0.000	4
461282	8	76,920,458	T	G	ENSG00000211417	3	3_prime_flanking_region	255	3	1.16	144	76	33.93	33.93	Somatic	0.000	134	101	42.98	42.98	Somatic	0.000	1
461282	8	80,783,644	G	T	STM2	3	3_prime_flanking_region	739	3	0.40	602	421	41.15	41.15	Somatic	0.000	494	444	47.33	47.33	Somatic	0.000	1
461282	8	81,484,807	T	C	-	3	-	1230	0	0.00	1010	1	0.10	0.10	Reference	0.451	752	485	39.21	39.21	Somatic	0.000	3
461282	8	83,868,935	A	T	-	2	-	690	5	0.72	575	363	38.70	38.70	Somatic	0.000	468	388	45.33	45.33	Somatic	0.000	1
461282	8	85,853,931	G	A	RALYL	3	intronic	718	5	0.69	565	305	33.06	33.06	Somatic	0.000	550	461	46.05	46.05	Somatic	0.000	1
461282	8	86,246,246	C	G	CNB1	3	intronic	622	1	0.15	177	0	0.00	0.00	Reference	0.397	293	26	9.56	9.56	Somatic	0.000	5
461282	8	88,271,859	C	T	CNB1	3	intronic	444	0	0.00	605	2	0.33	0.33	Reference	0.333	347	244	41.29	41.29	Somatic	0.000	3
461282	8	92,750,194	C	T	-	2	-	544	1	0.18	517	315	37.86	37.86	Somatic	0.000	456	412	47.47	47.47	Somatic	0.000	1
461282	8	93,099,592	T	C	RUNX1T1	3	intronic	448	0	0.00	606	1	0.16	0.16	Reference	0.821	514	48	8.54	8.54	Somatic	0.000	5
461282	8	94,225,192	T	C	LOC389676	3	intronic	230	7	2.95	183	115	38.59	38.59	Somatic	0.000	122	129	51.39	51.39	Somatic	0.000	1
461282	8	105,669,462	C	T	LRP12	2	intronic	276	1	0.36	363	245	40.30	40.30	Somatic	0.000	367	297	44.73	44.73	Somatic	0.000	1
461282	8	113,556,218	G	A	CSMD3	3	intronic	245	0	0.00	253	123	32.71	32.71	Somatic	0.000	175	114	39.45	39.45	Somatic	0.000	1
461282	8	114,077,071	C	T	CSMD3	3	intronic	123	1	0.81	105	1	0.91	0.91	Reference	0.851	78	31	28.44	28.44	Somatic	0.000	4
461282	8	118,200,756	C	T	SLC30A8	3	intronic	695	0	0.00	642	0	0.00	0.00	Reference	1.000	432	299	40.90	40.90	Somatic	0.000	3
461282	8	118,665,967	G	T	MED30	3	3_prime_flanking_region	591	0	0.00	936	4	0.43	0.43	Somatic	0.142	617	366	37.23	37.23	Somatic	0.000	0
461282	8	140,013,049	C	T	COL22A1	3	5_prime_flanking_region	256	2	0.78	175	132	43.00	43.00	Somatic	0.000	290	200	40.82	40.82	Somatic	0.000	1
461282	8	142,771,857	G	C	-	3	-	126	0	0.00	115	0	0.00	0.00	Reference	1.000	295	77	20.70	20.70	Somatic	0.000	4
461282	8	142,856,294	G	A	-	3	-	318	1	0.31	127	58	31.35	31.35	Somatic	0.000	268	151	36.04	36.04	Somatic	0.000	1
461282	8	147,348,142	C	G	C	3	-	193	0	0.00	310	0	0.00	0.00	Reference	1.000	507	441	46.52	46.52	Somatic	0.000	2
461282	8	172,722,942	T	C	C9orf150	3	5_prime_flanking_region	804	3	0.37	830	104	11.13	11.13	Somatic	0.000	507	441	46.52	46.52	Somatic	0.000	3
461282	8	17,298,840	C	T	BCL11A	2	intronic	194	0	0.00	230	1	0.43	0.43	Somatic	0.544	118	78	39.80	39.80	Somatic	0.000	3
461282	8	32,901,845	A	G	ENSG00000217575	3	5_prime_flanking_region	1856	2	0.11	2109	237	10.10	10.10	Somatic	0.000	1297	975	42.91	42.91	Somatic	0.000	2
461282	8	33,178,006	G	T	B4GALT1	2	5_prime_flanking_region	295	7	2.32	277	144	34.20	34.20	Somatic	0.000	316	250	44.17	44.17	Somatic	0.000	1
461282	8	36,306,085	G	T	LOC646993	3	5_prime_flanking_region	827	0	0.00	576	1	0.17	0.17	Reference	0.436	485	288	37.26	37.26	Somatic	0.000	3
461282	8	36,745,028	C	T	-	2	-	372	0	0.00	304	213	41.20	41.20	Somatic	0.000	399	372	48.25	48.25	Somatic	0.000	1
461282	8	70,304,049	C	T	PGM5	1	silent	658	8	1.20	586	367	38.51	38.51	Somatic	0.000	635	593	48.29	48.29	Somatic	0.000	1
461282	8	71,889,304	C	A	MAMD2C	3	intronic	604	5	0.82	415	211	33.71	33.71	Somatic	0.000	341	285	45.53	45.53	Somatic	0.000	1
461282	8	74,442,570	C	T	GADD45G	3	5_prime_flanking_region	24	0	0.00	21	10	32.26	32.26	Somatic	0.002	17	2	10.53	10.53	Somatic	0.189	0
461282	8	95,722,4																					

461282	10	34,015,643	C	T	-	ANKRD30A	2	-	514	2	0.39	485	254	34.37	34.37	Somatic	0.000	456	307	40.24	40.24	Somatic	0.000	1
461282	10	37,528,500	C	T	G	CXCL12	3	5_prime_flanking_region	139	1	0.71	171	98	36.43	36.43	Somatic	0.000	86	87	50.29	50.29	Somatic	0.000	1
461282	10	44,213,215	A	G	A	FRMPD2	2	intronic	545	6	1.09	440	251	36.32	36.32	Somatic	0.000	405	402	49.81	49.81	Somatic	0.000	1
461282	10	49,064,343	G	A	G	PCDH15	3	intronic	291	1	0.34	338	0	0.00	0.00	Reference	0.460	396	145	26.80	26.80	Somatic	0.000	4
461282	10	56,272,045	C	G	C	PCDH15	3	intronic	354	1	0.28	425	1	0.23	0.23	Reference	0.796	296	82	21.69	21.69	Somatic	0.000	4
461282	10	57,015,691	G	A	A	PCDH15	3	intronic	260	1	0.38	336	0	0.00	0.00	Reference	0.437	187	120	39.09	39.09	Somatic	0.000	3
461282	10	58,143,746	T	A	-	BICC1	3	-	605	4	0.66	625	155	19.87	19.87	Somatic	0.000	292	312	51.66	51.66	Somatic	0.000	0
461282	10	60,207,229	G	A	A	BICC1	3	intronic	434	0	0.00	633	1	0.16	0.16	Reference	0.594	362	246	40.46	40.46	Somatic	0.000	3
461282	10	62,989,304	C	T	T	ZNF365	3	-	775	5	0.64	523	314	37.51	37.51	Somatic	0.000	384	374	49.34	49.34	Somatic	0.000	1
461282	10	63,888,532	C	T	G	EGR2	2	5_prime_flanking_region	135	0	0.00	105	70	39.33	39.33	Somatic	0.000	132	82	38.32	38.32	Somatic	0.000	1
461282	10	64,420,290	G	C	G	ZCCHC24	3	-	426	0	0.00	542	0	0.00	0.00	Reference	1.000	642	34	5.03	5.03	Somatic	0.000	5
461282	10	70,967,905	C	T	T	-	3	-	168	0	0.00	232	1	0.24	0.24	Reference	1.486	389	131	25.19	25.19	Somatic	0.000	4
461282	10	80,864,277	C	G	C	-	400	4	0.99	535	348	39.41	39.41	Somatic	0.000	401	332	45.29	45.29	Somatic	0.000	1		
461282	10	84,551,962	G	A	NRG3	2	intronic	413	0	0.00	510	54	9.57	9.57	Somatic	0.000	322	239	42.60	42.60	Somatic	0.000	2	
461282	10	84,718,899	T	C	NRG3	3	intronic	631	9	1.41	568	264	31.73	31.73	Somatic	0.000	537	458	46.03	46.03	Somatic	0.000	1	
461282	10	96,008,109	C	A	PLCE1	3	intronic	176	0	0.00	191	108	36.12	36.12	Somatic	0.000	135	111	45.12	45.12	Somatic	0.000	1	
461282	10	97,965,554	C	A	BLNK	2	intronic	503	0	0.00	611	8	1.29	1.29	Somatic	0.009	418	235	35.99	35.99	Somatic	0.000	0	
461282	10	99,609,293	A	G	GOLGA7B	1	missense	403	2	0.49	471	0	0.00	0.00	Reference	0.214	628	194	23.60	23.60	Somatic	0.000	4	
461282	10	102,462,017	C	G	PAX2	2	5_prime_flanking_region	477	0	0.00	574	1	0.17	0.17	Reference	0.549	706	195	21.64	21.64	Somatic	0.000	4	
461282	10	107,996,702	C	T	-	-	3	-	465	2	0.43	358	222	38.28	38.28	Somatic	0.000	311	199	39.02	39.02	Somatic	0.000	1
461282	10	112,367,550	G	A	ENSG00000203869	3	5_prime_flanking_region	952	0	0.00	1449	0	0.00	0.00	Reference	1.000	1316	359	21.43	21.43	Somatic	0.000	4	
461282	10	115,846,352	G	C	ENSG00000216620	3	5_prime_flanking_region	352	0	0.00	421	0	0.00	0.00	Reference	1.000	523	173	24.86	24.86	Somatic	0.000	4	
461282	10	118,896,295	C	G	VAX1	2	5_prime_flanking_region	304	0	0.00	392	0	0.00	0.00	Reference	1.000	415	119	22.28	22.28	Somatic	0.000	4	
461282	10	121,690,493	A	G	SEC23P1	3	3_prime_untranslated_region	129	0	0.00	136	70	33.98	33.98	Somatic	0.000	76	68	47.22	47.22	Somatic	0.000	1	
461282	10	121,700,571	G	A	SEC23P1	3	3_prime_flanking_region	256	2	0.78	232	84	26.58	26.58	Somatic	0.000	190	131	40.81	40.81	Somatic	0.000	1	
461282	10	122,530,925	C	T	-	-	2	-	655	10	1.50	615	362	37.05	37.05	Somatic	0.000	752	635	45.78	45.78	Somatic	0.000	1
461282	10	126,509,939	G	C	FAM175B	1	missense	232	0	0.00	327	0	0.00	0.00	Reference	1.000	320	115	26.44	26.44	Somatic	0.000	4	
461282	10	128,834,723	T	C	C10orf141	2	intronic	43	0	0.00	114	56	32.94	32.94	Somatic	0.000	102	86	45.74	45.74	Somatic	0.000	1	
461282	10	131,624,207	A	T	EBF3	3	intronic	71	0	0.00	55	32	36.78	36.78	Somatic	0.000	96	56	36.84	36.84	Somatic	0.000	1	
461282	10	133,964,848	C	G	STK32C	3	intronic	216	0	0.00	340	0	0.00	0.00	Reference	0.381	482	159	24.80	24.80	Somatic	0.000	4	
461282	11	358,406	G	C	LOC10133595	3	intronic	38	0	0.00	35	0	0.00	0.00	Reference	1.000	69	21	23.33	23.33	Somatic	0.000	4	
461282	11	60,622	A	G	ENSG00000215211	2	intronic	71	0	0.00	125	0	0.00	0.00	Reference	1.000	449	160	24.06	24.06	Somatic	0.000	3	
461282	11	3,127,426	G	C	OSBP5	3	intronic	209	0	0.00	249	0	0.00	0.00	Reference	1.000	505	160	48.44	48.44	Somatic	0.000	4	
461282	11	3,024,16	C	G	NUP98	2	5_prime_flanking_region	330	0	0.00	293	1	0.24	0.24	Reference	0.739	317	111	25.93	25.93	Somatic	0.000	4	
461282	11	5,022,599	C	T	OR56A3	3	5_prime_flanking_region	667	7	1.04	397	174	30.47	30.47	Somatic	0.000	328	201	38.00	38.00	Somatic	0.000	1	
461282	11	10,428,538	T	G	AMPD3	2	5_prime_flanking_region	300	4	1.32	413	1	0.24	0.24	Reference	0.836	434	258	37.28	37.28	Somatic	0.000	3	
461282	11	11,235,344	C	T	GALNTL4	3	3_prime_flanking_region	637	7	1.09	404	303	42.86	42.86	Somatic	0.000	449	339	43.02	43.02	Somatic	0.000	1	
461282	11	15,185,093	G	C	INSC	2	intronic	614	1	0.16	606	0	0.00	0.00	Reference	0.500	737	212	22.34	22.34	Somatic	0.000	4	
461282	11	16,209,365	G	A	SOX6	3	intronic	196	1	0.51	256	22	7.91	7.91	Somatic	0.000	119	54	31.21	31.21	Somatic	0.000	0	
461282	11	17,834,135	G	C	SERGEF	2	intronic	803	0	0.00	749	0	0.00	0.00	Reference	1.000	808	240	22.90	22.90	Somatic	0.000	4	
461282	11	20,056,092	C	G	-	3	-	33	1	2.94	36	23	38.98	38.98	Somatic	0.000	32	17	34.69	34.69	Somatic	0.000	1	
461282	11	26,470,275	T	C	ANO3	3	intronic	271	0	0.00	416	0	0.00	0.00	Reference	1.000	183	262	58.88	58.88	Somatic	0.000	0	
461282	11	29,098,517	G	A	-	2	-	867	11	1.25	747	450	37.59	37.59	Somatic	0.000	675	571	45.83	45.83	Somatic	0.000	1	
461282	11	32,370,819	G	C	WT1	1	missense	902	1	0.11	819	0	0.00	0.00	Reference	0.525	950	271	22.19	22.19	Somatic	0.000	4	
461282	11	38,853,519	C	G	LOC100133559	3	3_prime_flanking_region	304	0	0.00	583	1	0.17	0.17	Reference	0.658	367	124	25.25	25.25	Somatic	0.000	4	
461282	11	39,015,557	C	T	-	-	3	-	484	0	0.00	734	1	0.14	0.14	Reference	0.603	362	263	42.08	42.08	Somatic	0.000	3
461282	11	41,761,886	T	A	-	-	3	-	437	1	0.23	439	7	1.57	1.57	Somatic	0.037	277	201	42.05	42.05	Somatic	0.000	0
461282	11	42,625,396	T	C	-	2	-	1408	0	0.00	1550	5	0.32	0.32	Somatic	0.135	1076	755	41.23	41.23	Somatic	0.000	0	
461282	11	42,645,208	G	T	-	-	305	1	0.33	349	0	0.00	0.00	Reference	0.465	214	74	25.69	25.69	Somatic	0.000	4		
461282	11	43,750,778	G	A	HSD17B12	3	intronic	306	0	0.00	416	1	0.24	0.24	Reference	0.577	281	168	37.42	37.42	Somatic	0.000	3	
461282	11	45,749,144	G	A	SLC35C1	2	5_prime_flanking_region	691	4	0.58	705	429	37.83	37.83	Somatic	0.000	861	678	44.05	44.05	Somatic	0.000	1	
461282	11	49,058,378	C	T	LOC464754	3	5_prime_flanking_region	86	0	0.00	136	0	0.00	0.00	Reference	1.000	100	19	15.97	15.97	Somatic	0.000	4	
461282	11	57,880,053	A	G	ENSG00000209061	2	5_prime_flanking_region	145	0	0.00	115	68	37.16	37.16	Somatic	0.000	83	77	48.12	48.12	Somatic	0.000	1	
461282	11	65,053,666	G	C	SYCL1	3	intronic	143	0	0.00	180	1	0.54	0.54	Reference	0.577	268	256	25.56	25.56	Somatic	0.000	4	
461282	11	66,573,267	G	T	PDE2A	3	intronic	119	0	0.00	156	0	0.00	0.00	Reference	1.								

461282	13	65,622,073	C	T	-	PCDH9	3	-	875	11	1.24	899	463	33.99	33.99	Somatic	0.000	685	554	44.71	44.71	Somatic	0.000	1
461282	13	66,674,756	C	C	KLHL1	3	intronic	267	0	0.00	344	0	0.00	Reference	1.000	345	43	11.08	11.08	Somatic	0.000	5		
461282	13	69,535,341	G	C	-	3	-	307	0	0.00	477	0	0.00	Reference	1.000	307	88	22.28	22.28	Somatic	0.000	4		
461282	13	70,266,256	G	C	-	3	-	238	0	0.00	163	92	36.08	36.08	Somatic	0.000	135	110	44.90	44.90	Somatic	0.000	1	
461282	13	71,676,848	T	A	-	3	-	233	0	0.00	234	157	40.15	40.15	Somatic	0.000	189	166	46.76	46.76	Somatic	0.000	1	
461282	13	71,917,513	A	G	ENSG00000212377	3	3_prime_flanking_region	485	0	0.00	620	0	0.00	Reference	1.000	550	147	21.09	21.09	Somatic	0.000	4		
461282	13	72,760,778	A	G	ENSG00000206812	2	3_prime_flanking_region	463	4	0.86	380	242	38.91	38.91	Somatic	0.000	394	352	47.18	47.18	Somatic	0.000	1	
461282	13	74,616,515	C	G	ENSG00000206812	3	-	884	1	0.11	1639	1	0.06	Reference	0.649	1354	125	8.45	8.45	Somatic	0.000	5		
461282	13	78,699,037	G	A	-	3	-	872	11	1.25	851	456	34.89	34.89	Somatic	0.000	679	542	44.39	44.39	Somatic	0.000	1	
461282	13	81,375,957	C	T	-	3	-	1105	2	0.18	850	122	11.50	11.50	Somatic	0.000	623	453	42.10	42.10	Somatic	0.000	2	
461282	13	84,465,886	A	G	-	3	-	150	3	0.05	139	98	41.35	41.35	Somatic	0.000	102	81	44.26	44.26	Somatic	0.000	1	
461282	13	87,000,000	C	T	ENSG00000218326	3	5_prime_flanking_region	402	0	0.00	556	0	0.00	Reference	1.000	296	127	30.02	30.02	Somatic	0.000	4		
461282	13	90,142,609	A	C	G	ENSG00000216924	2	5_prime_flanking_region	166	1	0.60	189	127	40.19	40.19	Somatic	0.000	165	150	47.62	47.62	Somatic	0.000	1
461282	13	90,461,648	C	G	ENSG00000216924	3	intronic	287	0	0.00	443	0	0.00	Reference	1.000	443	31	6.54	6.54	Somatic	0.000	5		
461282	13	91,383,977	T	A	GPC5	3	intronic	297	0	0.00	538	0	0.00	Reference	1.000	352	126	26.36	26.36	Somatic	0.000	4		
461282	13	93,049,049	G	A	GPC6	3	intronic	361	1	0.28	344	190	35.58	35.58	Somatic	0.000	278	191	40.72	40.72	Somatic	0.000	1	
461282	13	93,843,907	C	T	GPC6	2	intronic	523	1	0.19	597	139	18.89	18.89	Somatic	0.000	458	390	45.99	45.99	Somatic	0.000	2	
461282	13	97,035,122	A	T	-	3	-	879	3	0.34	535	249	31.76	31.76	Somatic	0.000	500	374	42.79	42.79	Somatic	0.000	1	
461282	13	99,103,253	C	T	CLYBL	2	intronic	551	0	0.00	674	94	12.24	12.24	Somatic	0.000	582	440	43.05	43.05	Somatic	0.000	2	
461282	13	100,487,476	C	G	NALCN	3	3_prime_flanking_region	648	0	0.00	1217	2	0.16	0.16	Reference	0.728	885	311	26.00	26.00	Somatic	0.000	4	
461282	13	103,034,634	A	G	-	3	-	177	0	0.00	203	1	0.49	0.49	Reference	0.535	123	83	40.29	40.29	Somatic	0.000	3	
461282	13	103,965,828	G	A	-	3	-	217	2	0.91	260	164	38.68	38.68	Somatic	0.000	180	152	45.78	45.78	Somatic	0.000	1	
461282	14	24,610,017	C	G	STXPB6	3	5_prime_flanking_region	296	0	0.00	526	0	0.00	0.00	Reference	1.000	426	124	22.55	22.55	Somatic	0.000	4	
461282	14	30,979,397	C	G	HEATR5A	2	5_prime_flanking_region	249	0	0.00	306	0	0.00	0.00	Reference	1.000	330	94	22.17	22.17	Somatic	0.000	4	
461282	14	38,941,110	T	C	FBXO33	2	intronic	126	0	0.00	155	112	41.95	41.95	Somatic	0.000	114	123	51.90	51.90	Somatic	0.000	1	
461282	14	39,488,259	C	T	-	3	-	940	0	0.00	1098	0	0.00	0.00	Reference	0.461	806	227	21.97	21.97	Somatic	0.000	4	
461282	14	43,640,122	A	C	LOC645086	3	3_prime_flanking_region	324	0	0.00	382	0	0.00	0.00	Reference	0.459	281	85	23.22	23.22	Somatic	0.000	4	
461282	14	44,184,888	C	G	-	3	-	155	0	0.00	179	0	0.00	0.00	Reference	1.000	143	9	5.92	5.92	Somatic	0.002	5	
461282	14	55,421,808	G	A	-	3	-	467	0	0.00	712	1	0.14	0.14	Reference	0.604	498	298	37.44	37.44	Somatic	0.000	3	
461282	14	60,043,655	C	G	SIX6	2	5_prime_flanking_region	128	0	0.00	330	0	0.00	0.00	Reference	0.268	267	90	25.21	25.21	Somatic	0.000	4	
461282	14	68,057,668	C	T	RAD51L1	3	intronic	356	0	0.00	577	1	0.17	0.17	Reference	0.622	576	193	25.10	25.10	Somatic	0.000	4	
461282	14	70,777,811	G	C	C14orf56	3	intronic	360	0	0.00	351	0	0.00	0.00	Reference	1.000	414	120	22.47	22.47	Somatic	0.000	4	
461282	14	71,676,276	G	A	RGS6	3	intronic	352	1	0.28	451	1	0.22	0.22	Reference	0.568	360	217	37.61	37.61	Somatic	0.000	3	
461282	14	75,580,807	G	A	ESRRB	3	intronic	800	3	0.37	478	228	32.29	32.29	Somatic	0.000	633	546	46.31	46.31	Somatic	0.000	1	
461282	14	77,059,569	A	G	-	3	-	404	0	0.00	596	324	35.52	35.52	Somatic	0.000	571	419	42.26	42.26	Somatic	0.000	1	
461282	14	83,419,154	A	T	-	3	-	345	1	0.29	383	243	38.82	38.82	Somatic	0.000	372	305	45.05	45.05	Somatic	0.000	1	
461282	14	84,803,070	T	C	ENSG00000210442	3	5_prime_flanking_region	445	3	0.67	412	255	38.23	38.23	Somatic	0.000	350	299	46.07	46.07	Somatic	0.000	1	
461282	14	85,382,556	T	C	-	3	-	49	0	0.00	81	0	0.00	0.00	Reference	1.000	62	48	43.64	43.64	Somatic	0.000	3	
461282	14	92,247,327	C	T	LGMN	3	intronic	380	2	0.52	266	154	36.67	36.67	Somatic	0.000	459	278	37.72	37.72	Somatic	0.000	1	
461282	14	92,467,695	G	A	CHGA	1	missense	84	0	0.00	147	0	0.00	0.00	Reference	1.000	202	152	42.94	42.94	Somatic	0.000	3	
461282	14	94,490,798	C	T	LOC730118	3	3_prime_flanking_region	230	2	0.86	268	149	35.73	35.73	Somatic	0.000	336	244	42.07	42.07	Somatic	0.000	1	
461282	14	97,726,957	A	T	-	3	-	472	4	0.84	401	250	38.40	38.40	Somatic	0.000	436	366	45.64	45.64	Somatic	0.000	1	
461282	14	103,692,132	C	T	KIF26A	3	intronic	14	0	0.00	32	23	41.82	41.82	Somatic	0.002	99	86	46.49	46.49	Somatic	0.000	1	
461282	15	25,319,366	A	G	GABRG3	3	intronic	746	7	0.93	405	192	32.16	32.16	Somatic	0.000	408	280	40.70	40.70	Somatic	0.000	1	
461282	15	25,933,590	C	T	OCA2	1	missense	378	2	0.53	464	291	38.54	38.54	Somatic	0.000	558	457	45.02	45.02	Somatic	0.000	1	
461282	15	33,224,366	G	A	ENSG00000214149	3	5_prime_flanking_region	181	1	0.55	255	146	36.41	36.41	Somatic	0.000	187	159	45.95	45.95	Somatic	0.000	1	
461282	15	41,431,402	G	A	LCTM2	1548	4	0.26	513	300	36.90	36.90	Somatic	0.000	530	496	48.34	48.34	Somatic	0.000	1			
461282	15	49,630,563	A	G	DMLX2	3	intronic	332	3	0.90	277	149	34.98	34.98	Somatic	0.000	203	164	44.69	44.69	Somatic	0.000	1	
461282	15	52,771,398	C	T	FAM149B2	2	intronic	582	4	0.68	928	592	38.02	38.02	Somatic	0.000	821	745	47.57	47.57	Somatic	0.000	1	
461282	16	97,246,089	C	T	IGF1R	2	intronic	1022	1	0.10	1127	1	0.09	0.09	Reference	0.777	753	521	40.89	40.89	Somatic	0.000	3	
461282	16	5,586,573	G	A	A2BP1	3	intronic	825	3	0.36	767	163	17.53	17.53	Somatic	0.000	644	578	47.30	47.30	Somatic	0.000	2	
461282	16	6,812,720	A	C	A2BP1	3	5_prime_flanking_region	629	0	0.00	699	1	0.14	0.14	Reference	0.777	728	211	22.47	22.47	Somatic	0.000	4	
461282	16	7,931,169	G	A	ENSG00000222109	757	0	0.00	814	113	12.19	12.19	Somatic	0.000	596	410	40.76	40.76	Somatic	0.000	2			
461282	16	9,498,260	A	T	-	3	-	377	0	0.00	734	1	0.14	0.14	Reference	0.662	431	135	23.85	23.85	Somatic	0.000	4	
461282	16	10,188,954	T	C	GRIN2A	3	5_prime_flanking_region	422	0	0.00	531	1	0.19	0.19	Reference	0.559	661	175	20.93	20.93	Somatic	0.000	1	
461282	16	10,947,466	C	T	CLEC16A																			

461282	17	68,176,105	G	C	SLC39A11	3 intronic	604	0	0.00	637	2	0.31	0.31	Reference	0.270	387	36	8.51	5.05	Somatic	0.000	5
461282	17	70,443,024	G	C	USH1G	3 5_prime_flanking_region	176	1	0.56	118	64	35.16	35.16	Somatic	0.000	62	200	76.34	45.31	Somatic	0.000	1
461282	17	73,764,316	T	C	EPR1	3 5_prime_flanking_region	109	1	0.91	23	51	68.92	44.80	Somatic	0.000	22	181	89.16	52.92	Somatic	0.000	1
461282	18	808,090	G	C	YES1	3 5_prime_flanking_region	208	1	0.48	120	79	39.70	39.70	Somatic	0.000	120	92	43.40	43.40	Somatic	0.000	1
461282	18	4,253,340	T	G	LOC284215	3 5_prime_flanking_region	195	1	0.51	215	127	37.13	37.13	Somatic	0.000	157	153	49.35	49.35	Somatic	0.000	1
461282	18	4,476,985	G	T	-	3 -	140	0	0.00	222	7	3.06	3.06	Reference	0.034	126	59	31.89	31.89	Somatic	0.000	0
461282	18	4,737,175	C	G	-	3 -	669	0	0.00	893	1	0.11	0.11	Reference	0.573	545	347	38.90	38.90	Somatic	0.000	3
461282	18	5,031,067	T	A	-	3 -	208	1	0.48	404	0	0.00	0.00	Reference	0.341	309	88	22.17	22.17	Somatic	0.000	4
461282	18	14,759,021	T	C	ANKRD30B	3 intronic	124	1	0.80	100	67	40.12	40.12	Somatic	0.000	77	89	53.61	53.61	Somatic	0.000	1
461282	18	21,593,265	G	C	-	2 -	343	0	0.00	690	1	0.14	0.14	Reference	0.670	400	137	25.51	25.51	Somatic	0.000	4
461282	18	27,530,100	T	C	MCART2	3 3_prime_flanking_region	176	2	0.12	101	90	47.12	47.12	Somatic	0.000	138	102	42.50	42.50	Somatic	0.000	1
461282	18	32,189,13	G	C	BRUNOL4	2 intronic	241	0	0.00	507	1	0.20	0.20	Reference	0.681	653	205	23.89	23.89	Somatic	0.000	4
461282	18	36,195,112	A	C	-	3 -	350	0	0.00	367	0	0.00	0.00	Reference	1.000	268	77	22.32	22.32	Somatic	0.000	4
461282	18	38,248,200	A	T	LOC284260	3 intronic	917	1	0.11	1072	132	10.96	10.96	Somatic	0.000	640	501	43.91	43.91	Somatic	0.000	2
461282	18	40,435,404	G	C	-	3 -	521	0	0.00	764	0	0.00	0.00	Reference	1.000	588	192	24.62	24.62	Somatic	0.000	4
461282	18	44,235,857	C	T	LOC647055	3 intronic	288	0	0.00	367	0	0.00	0.00	Reference	1.000	497	150	23.18	23.18	Somatic	0.000	4
461282	18	47,669,524	A	T	ENSG00000215457	3 5_prime_flanking_region	500	0	0.00	520	0	0.00	0.00	Reference	0.490	475	144	23.26	23.26	Somatic	0.000	4
461282	18	48,773,666	G	C	DCC	3 intronic	418	0	0.00	513	1	0.19	0.19	Reference	0.799	498	53	9.62	9.62	Somatic	0.000	5
461282	18	49,775,865	G	A	-	3 -	167	0	0.00	263	0	0.00	0.00	Reference	1.000	156	90	36.59	36.59	Somatic	0.000	3
461282	18	55,128,453	C	T	CPLX4	3 intronic	342	0	0.00	723	79	9.85	9.85	Somatic	0.000	484	417	46.28	46.28	Somatic	0.000	2
461282	18	57,609,245	C	G	RNF152	3 3_prime_flanking_region	1093	0	0.00	1010	1	0.10	0.10	Reference	0.482	1108	118	9.62	9.62	Somatic	0.000	5
461282	18	60,022,076	C	T	-	3 -	636	4	0.63	558	294	34.51	34.51	Somatic	0.000	524	359	40.66	40.66	Somatic	0.000	1
461282	18	60,829,152	G	A	-	3 -	123	0	0.00	145	71	32.87	32.87	Somatic	0.000	106	101	48.79	48.79	Somatic	0.000	1
461282	18	61,790,859	C	G	-	3 -	539	0	0.00	490	0	0.00	0.00	Reference	1.000	390	105	21.21	21.21	Somatic	0.000	4
461282	18	61,793,057	C	G	-	2 -	905	2	0.22	848	2	0.24	0.24	Reference	0.476	785	79	9.14	9.14	Somatic	0.000	5
461282	18	61,923,243	G	T	-	3 -	299	0	0.00	314	0	0.00	0.00	Reference	1.000	252	103	29.01	29.01	Somatic	0.000	4
461282	18	61,931,574	A	G	-	3 -	553	0	0.00	531	0	0.00	0.00	Reference	1.000	366	130	26.21	26.21	Somatic	0.000	4
461282	18	62,546,345	G	C	-	3 -	305	0	0.00	701	0	0.00	0.00	Reference	1.000	512	144	21.95	21.95	Somatic	0.000	4
461282	18	62,951,737	G	C	-	3 -	281	0	0.00	320	0	0.00	0.00	Reference	1.000	292	61	17.28	17.28	Somatic	0.000	4
461282	18	63,417,718	G	A	-	3 -	235	1	0.42	215	126	36.95	36.95	Somatic	0.000	212	172	44.79	44.79	Somatic	0.000	1
461282	18	68,125,120	C	G	-	3 -	230	2	0.86	300	122	28.91	28.91	Somatic	0.000	249	223	47.25	47.25	Somatic	0.000	1
461282	18	70,310,243	C	T	CNDP1	3 5_prime_flanking_region	312	0	0.00	172	86	35.82	35.82	Somatic	0.000	233	202	46.56	46.56	Somatic	0.000	1
461282	18	73,489,450	M	A	LOC100132713	3 3_prime_flanking_region	338	1	0.29	375	121	17.22	17.22	Somatic	0.000	429	334	43.77	43.77	Somatic	0.000	2
461282	19	2,229,909	C	G	C19orf35	1 missense	91	0	0.00	124	0	0.00	0.00	Reference	1.000	197	70	20.36	20.36	Somatic	0.000	4
461282	19	18,854,906	C	T	LASS1	2 intronic	84	0	0.00	81	38	31.93	31.93	Somatic	0.000	121	70	36.65	36.65	Somatic	0.000	1
461282	19	34,429,045	G	A	UQCRFS1	2 5_prime_flanking_region	329	0	0.00	847	2	0.24	0.24	Reference	0.531	465	412	46.98	46.98	Somatic	0.000	3
461282	19	34,496,767	A	G	-	3 -	661	1	0.15	730	6	0.82	0.82	Somatic	0.022	673	511	43.16	43.16	Somatic	0.000	0
461282	19	35,466,738	T	C	-	3 -	394	0	0.00	298	0	0.00	0.00	Reference	0.570	288	203	41.34	41.34	Somatic	0.000	3
461282	19	35,559,841	G	A	ZNF536	3 intronic	146	0	0.00	209	144	40.79	40.79	Somatic	0.000	277	209	43.00	43.00	Somatic	0.000	1
461282	19	36,811,163	T	C	-	2 -	50	0	0.00	110	0	0.00	0.00	Reference	1.000	99	26	20.80	20.80	Somatic	0.000	4
461282	19	40,704,460	C	G	DMKN	3 5_prime_flanking_region	311	3	0.96	198	108	35.29	35.29	Somatic	0.000	349	239	40.65	40.65	Somatic	0.000	1
461282	19	48,016,892	G	A	CEACAMP6	3 5_prime_flanking_region	292	1	0.34	312	31	9.04	9.04	Somatic	0.000	257	139	35.10	35.10	Somatic	0.000	2
461282	19	57,012,001	T	C	FPR3	3 intronic	450	6	1.32	326	261	44.46	44.46	Somatic	0.000	324	312	49.06	49.06	Somatic	0.000	1
461282	19	57,891,267	T	A	NFNB3	3 5_prime_flanking_region	224	0	0.00	373	0	0.00	0.00	Reference	1.000	256	201	43.98	43.98	Somatic	0.000	3
461282	19	59,544,678	G	A	LILRA4	3 5_prime_flanking_region	287	2	0.69	103	68	39.77	39.77	Somatic	0.000	202	189	48.34	48.34	Somatic	0.000	1
461282	20	1,051,420	A	G	PSMP1	3 intronic	464	2	0.43	326	195	37.43	37.43	Somatic	0.000	390	313	44.52	44.52	Somatic	0.000	1
461282	20	1,792,875	C	G	SIRPA	3 5_prime_flanking_region	824	0	0.00	510	0	0.00	0.00	Reference	1.000	560	189	25.23	25.23	Somatic	0.000	4
461282	20	7,988,329	G	A	TMX4	3 5_prime_flanking_region	488	0	0.00	320	137	29.98	29.98	Somatic	0.000	235	189	44.58	44.58	Somatic	0.000	1
461282	20	9,587,981	G	C	PAK7	2 intronic	449	0	0.00	569	1	0.18	0.18	Reference	0.560	639	79	11.00	11.00	Somatic	0.000	5
461282	20	11,935,169	T	C	-	3 -	303	7	2.26	361	215	37.33	37.33	Somatic	0.000	294	292	49.83	49.83	Somatic	0.000	1
461282	20	15,671,376	C	T	MACROD2	3 intronic	699	1	0.14	790	390	33.05	33.05	Somatic	0.000	542	477	46.81	46.81	Somatic	0.000	1
461282	20	21,690,419	A	G	SLC25A6P1	3 5_prime_flanking_region	211	0	0.00	477	1	0.21	0.21	Reference	0.694	263	220	45.55	45.55	Somatic	0.000	3
461282	20	21,691,223	A	G	SLC25A6P1	3 5_prime_flanking_region	213	0	0.00	483	0	0.00	0.00	Reference	1.000	260	228	46.72	46.72	Somatic	0.000	3
461282	20	23,651,270	G	A	NLP	3 intronic	700	11	0.55	491	287	33.37	33.37	Somatic	0.000	169	285	45.36	45.36	Somatic	0.000	1
461282	20	36,812,181	G	A	ACTR5	1 missense	511	0	0.00	454	0	0.00	0.00	Reference	0.470	285	228	44.44	44.44	Somatic	0.000	4
461282	20	37,198,839	G	A	PTPRT	3 intronic	763	2	0.26	416	1	0.24	0.15	Somatic	0.000	43	191	44.89	44.89	Somatic	0.000	2
461282	20	41,099,276	C	T	ADAMTS5	3 3_prime_flanking_region	1479	5	0.34	457	135	14.36	14.36	Somatic	0.000	286						

461282	X	103,174,381	C	T	H2BFM	3	intronic	358	2	0.56	82	342	80.66	40.33	Somatic	0.000	32	414	92.83	46.42	Somatic	0.000	1
461282	X	104,764,252	G	T	IL1RAPL2	2	intronic	344	1	0.29	463	1	0.22	0.11	Reference	0.818	254	248	49.40	24.70	Somatic	0.000	4
461282	X	114,703,414	C	T	PLS3	2	intronic	92	1	1.08	29	94	76.42	38.21	Somatic	0.000	5	120	96.00	48.00	Somatic	0.000	1
461282	X	118,110,336	G	A	KIAA1210	2	intronic	292	2	0.68	125	372	74.85	37.43	Somatic	0.000	57	569	90.89	45.45	Somatic	0.000	1
461282	X	123,337,492	A	T	ENSG00000219631	2	5_prime_flanking_region	168	0	0.00	237	50	17.42	8.71	Somatic	0.000	33	199	85.78	42.89	Somatic	0.000	2
461282	X	123,670,267	A	G	ODZ1	3	intronic	122	2	1.61	29	151	83.89	41.95	Somatic	0.000	14	146	91.25	45.63	Somatic	0.000	1
461282	X	137,617,044	C	T	FGF13	3	intronic	213	0	0.00	344	76	18.10	9.05	Somatic	0.000	68	320	82.47	41.24	Somatic	0.000	2
461282	X	140,356,946	C	T	-	3	-	231	5	2.12	43	155	78.28	39.14	Somatic	0.000	16	201	92.63	46.32	Somatic	0.000	1
461282	X	140,992,062	C	G	-	3	-	298	0	0.00	458	0	0.00	0.00	Reference	1.000	426	90	17.44	8.72	Somatic	0.000	5
461282	X	141,356,125	G	A	ENSG00000201000	3	3_prime_flanking_region	330	0	0.00	841	0	0.00	0.00	Reference	1.000	616	50	7.51	3.76	Somatic	0.000	5
461282	X	141,401,640	T	C	-	3	-	417	0	0.00	464	0	0.00	0.00	Reference	1.000	473	59	11.99	5.55	Somatic	0.000	5
461282	X	143,687,769	T	C	ENSG00000216734	3	5_prime_flanking_region	32	0	0.00	19	67	77.91	38.96	Somatic	0.000	5	51	91.07	45.54	Somatic	0.000	1
461282	X	145,070,933	T	C	-	2	-	254	0	0.00	282	0	0.00	0.00	Reference	1.000	161	150	48.23	24.12	Somatic	0.000	4
461282	Y	15,036,326	C	T	-	3	-	336	10	2.89	114	313	73.30	36.65	Somatic	0.000	27	442	94.24	47.12	Somatic	0.000	1
667720	1	3,368,853	G	A	ARHGEF16	2	intronic	73	0	0.00	25	10	28.57	28.57	Somatic	0.000	49	34	40.96	40.96	Somatic	0.000	0
667720	1	16,899,091	G	A	ESPNP	1	silent	71	13	15.48	50	19	27.54	27.54	Somatic	0.052	88	59	40.14	40.14	Somatic	0.000	0
667720	1	18,137,761	G	A	0	3	0	862	12	1.37	343	174	33.66	33.66	Somatic	0.000	270	266	49.63	49.63	Somatic	0.000	1
667720	1	18,472,794	G	C	IGSF21	3	intronic	416	0	0.00	160	0	0.00	0.00	Reference	1.000	180	73	28.85	28.85	Somatic	0.000	2
667720	1	25,211,479	A	T	RUNX3	3	5_prime_flanking_region	215	4	1.83	197	111	36.04	36.04	Somatic	0.000	206	175	45.93	45.93	Somatic	0.000	1
667720	1	26,293,560	G	A	TRIM63	2	5_prime_flanking_region	701	14	1.96	541	391	41.95	41.95	Somatic	0.000	458	439	48.94	48.94	Somatic	0.000	1
667720	1	28,261,366	T	C	EYA3	3	intronic	491	12	2.39	132	97	42.36	42.36	Somatic	0.000	216	186	46.27	46.27	Somatic	0.000	1
667720	1	30,765,803	A	C	0	3	0	1518	21	1.36	609	506	45.38	45.38	Somatic	0.000	619	494	44.38	44.38	Somatic	0.000	1
667720	1	34,456,883	G	A	C1orf94	1	silent	927	35	3.64	499	416	45.46	45.46	Somatic	0.000	518	428	45.24	45.24	Somatic	0.000	1
667720	1	37,532,818	G	A	ENSG00000210044	3	5_prime_flanking_region	1020	24	2.30	446	343	43.47	43.47	Somatic	0.000	463	398	46.23	46.23	Somatic	0.000	1
667720	1	40,440,683	T	C	RLF	1	missense	606	12	1.94	356	222	38.41	38.41	Somatic	0.000	373	253	40.42	40.42	Somatic	0.000	1
667720	1	47,889,152	G	T	ENSG00000221447	3	5_prime_flanking_region	742	18	2.37	507	345	40.49	40.49	Somatic	0.000	562	476	45.86	45.86	Somatic	0.000	1
667720	1	47,889,153	G	C	ENSG00000221447	3	5_prime_flanking_region	738	17	2.25	500	349	41.11	41.11	Somatic	0.000	563	474	45.71	45.71	Somatic	0.000	1
667720	1	51,469,484	A	T	RNF11	3	5_prime_flanking_region	306	7	2.24	220	145	39.73	39.73	Somatic	0.000	258	224	46.47	46.47	Somatic	0.000	1
667720	1	53,891,705	C	T	GLIS1	3	intronic	875	16	1.80	625	448	41.75	41.75	Somatic	0.000	592	519	46.71	46.71	Somatic	0.000	1
667720	1	60,336,018	G	A	ENSG00000220818	2	3_prime_untranslated_region	414	20	4.61	809	541	40.07	40.07	Somatic	0.000	471	402	46.05	46.05	Somatic	0.000	1
667720	1	64,741,279	A	G	CACHD1	2	intronic	626	13	2.03	315	193	37.99	37.99	Somatic	0.000	358	296	45.26	45.26	Somatic	0.000	1
667720	1	67,697,756	G	A	SERBP1	3	5_prime_flanking_region	1513	20	1.30	841	665	44.16	44.16	Somatic	0.000	723	652	47.42	47.42	Somatic	0.000	1
667720	1	71,272,784	C	T	PTGER3	3	intronic	936	6	0.64	253	156	38.14	38.14	Somatic	0.000	231	209	47.50	47.50	Somatic	0.000	1
667720	1	71,840,495	G	A	NEGR1	3	intronic	707	1	0.14	458	2	0.43	0.43	Reference	0.343	362	146	28.74	28.74	Somatic	0.000	2
667720	1	73,040,060	G	A	0	3	0	540	16	2.88	461	310	40.21	40.21	Somatic	0.000	535	419	43.92	43.92	Somatic	0.000	1
667720	1	74,882,452	C	T	C1orf173	3	intronic	1160	24	2.03	763	563	42.46	42.46	Somatic	0.000	718	616	46.18	46.18	Somatic	0.000	1
667720	1	78,314,321	C	T	GIPC2	3	intronic	451	0	0.00	521	0	0.00	0.00	Reference	1.000	432	165	27.64	27.64	Somatic	0.000	2
667720	1	78,334,298	G	A	GIPC2	3	intronic	870	9	1.02	477	318	40.00	40.00	Somatic	0.000	429	401	48.31	48.31	Somatic	0.000	1
667720	1	79,972,251	G	A	0	3	0	616	22	3.45	394	248	38.63	38.63	Somatic	0.000	396	324	45.00	45.00	Somatic	0.000	1
667720	1	82,337,429	G	A	0	3	0	528	8	1.49	541	377	41.07	41.07	Somatic	0.000	504	425	45.75	45.75	Somatic	0.000	1
667720	1	84,446,042	T	A	PRKACB	1	missense	397	11	2.70	351	223	38.85	38.85	Somatic	0.000	371	321	46.39	46.39	Somatic	0.000	1
667720	1	85,615,216	C	T	DDAH1	3	intronic	1263	10	0.79	754	538	41.64	41.64	Somatic	0.000	772	681	46.87	46.87	Somatic	0.000	1
667720	1	89,055,010	C	G	PKN2	3	intronic	414	1	0.24	395	0	0.00	0.00	Reference	0.512	330	160	32.65	32.65	Somatic	0.000	2
667720	1	95,892,974	A	G	0	3	0	361	5	1.37	110	88	44.44	44.44	Somatic	0.000	106	115	52.04	52.04	Somatic	0.000	1
667720	1	96,053,901	A	G	0	3	0	757	1	0.13	1651	3	0.18	0.18	Reference	0.626	830	425	33.86	33.86	Somatic	0.000	2
667720	1	104,376,506	G	T	LOC100129138	2	intronic	193	3	1.53	126	56	30.77	30.77	Somatic	0.000	173	107	38.21	38.21	Somatic	0.000	0
667720	1	105,347,263	G	A	0	3	0	347	8	2.25	317	226	41.62	41.62	Somatic	0.000	270	269	49.91	49.91	Somatic	0.000	1
667720	1	107,432,067	G	A	PRMT6	3	3_prime_flanking_region	610	15	2.40	419	320	43.30	43.30	Somatic	0.000	414	350	45.81	45.81	Somatic	0.000	1
667720	1	111,694,191	G	A	C1orf88	3	intronic	667	16	2.34	641	456	41.57	41.57	Somatic	0.000	536	477	47.09	47.09	Somatic	0.000	1
667720	1	112,691,539	C	T	CTTNBP2NL	2	5_prime_flanking_region	665	22	3.20	561	451	44.57	44.57	Somatic	0.000	503	453	47.38	47.38	Somatic	0.000	1
667720	1	113,698,854	T	C	MAG13	3	5_prime_flanking_region	735	0	0.00	957	1	0.10	0.10	Reference	0.566	639	220	25.61	25.61	Somatic	0.000	2
667720	1	147,348,252	C	T	ENSG00000220877	3	5_prime_flanking_region	248	6	2.36	115	89	43.63	43.63	Somatic	0.000	114	92	44.66	44.66	Somatic	0.000	1
667720	1	157,208,158	A	T	TNR	3	5_prime_flanking_region	1848	32	1.70	922	672	42.16	42.16	Somatic	0.000	715	624	46.60	46.60	Somatic	0.000	1
667720	1	157,707,993	G	A	0	3	0	586	8	1.35	380	280	42.42	42.42	Somatic	0.000	363	308	45.90	45.90	Somatic	0.000	1
667720	1	161,428,904	G	A	RGSS	3	intronic	848	15	1.74	791	353	30.86	30.86	Somatic								

667720	2	11,019,975	G	A	KCNF1	3	3_prime_flanking_region	154	3	1.91	119	104	46.64	46.64	Somatic	0.000	174	149	46.13	46.13	Somatic	0.000	1		
667720	2	13,382,241	G	C	T	LOC100134020	0	3	5_prime_flanking_region	0	561	8	1.41	237	170	41.77	Somatic	0.000	273	253	48.10	48.10	Somatic	0.000	1
667720	2	18,962,080	C	T			0	3	5_prime_flanking_region	0	402	9	2.19	312	177	36.20	Somatic	0.000	505	402	44.32	44.32	Somatic	0.000	1
667720	2	22,179,654	G	A			0	3	intronic	0	563	11	1.92	230	138	37.50	Somatic	0.000	301	223	42.56	42.56	Somatic	0.000	1
667720	2	29,977,072	T	G	ALK	2	intronic	1974	27	1.35	1413	1083	43.39	43.39	Somatic	0.000	1001	864	46.33	46.33	Somatic	0.000	1		
667720	2	32,590,837	A	C	BIRC6	3	intronic	464	10	2.11	260	214	45.15	45.15	Somatic	0.000	357	361	50.28	50.28	Somatic	0.000	1		
667720	2	35,008,607	A	T		0	2	missense	0	495	11	2.17	313	188	37.52	Somatic	0.000	311	216	40.99	40.99	Somatic	0.000	1	
667720	2	37,490,711	C	A	QPCT	3	3_prime_flanking_region	444	1	0.22	642	0	0.00	0.00	Reference	0.409	452	214	32.13	32.13	Somatic	0.000	2		
667720	2	41,497,060	G	A		0	3	3_prime_flanking_region	0	373	10	2.61	329	242	42.38	42.38	Somatic	0.000	349	301	46.31	46.31	Somatic	0.000	1
667720	2	50,394,120	C	T	NRXN1	3	intronic	1226	26	2.08	537	375	41.12	41.12	Somatic	0.000	414	397	48.95	48.95	Somatic	0.000	1		
667720	2	53,705,585	C	T	ASB3	3	intronic	778	15	1.89	601	412	40.67	40.67	Somatic	0.000	538	433	44.59	44.59	Somatic	0.000	1		
667720	2	54,424,497	A	T	C2orf73	1	missense	653	12	1.80	510	350	40.70	40.70	Somatic	0.000	424	375	46.93	46.93	Somatic	0.000	1		
667720	2	61,852,967	C	T		0	3		0	988	8	0.80	357	283	44.22	44.22	Somatic	0.000	417	323	43.65	43.65	Somatic	0.000	1
667720	2	65,981,589	C	T		0	3		0	466	8	1.69	416	266	39.00	39.00	Somatic	0.000	324	312	49.06	49.06	Somatic	0.000	1
667720	2	70,807,972	G	C	ADD2	2	intronic	865	0	0.00	707	1	0.14	0.14	Reference	0.450	519	206	28.41	28.41	Somatic	0.000	2		
667720	2	75,563,863	G	A	FAM176A	3	3_prime_flanking_region	647	12	1.82	307	228	42.62	42.62	Somatic	0.000	392	316	44.63	44.63	Somatic	0.000	1		
667720	2	76,944,471	A	T	LRRTM4	3	intronic	1098	1	0.09	756	1	0.13	0.13	Reference	0.650	612	317	34.12	34.12	Somatic	0.000	2		
667720	2	78,532,767	C	T	ENSG00000214429	3	intronic	494	9	1.79	340	245	41.88	41.88	Somatic	0.000	359	337	48.42	48.42	Somatic	0.000	1		
667720	2	79,622,816	G	T	CTNNA2	3	intronic	441	18	3.92	359	208	36.68	36.68	Somatic	0.000	386	282	42.22	42.22	Somatic	0.000	1		
667720	2	80,863,675	G	A		0	2		0	477	1	0.21	378	1	0.26	0.26	Reference	0.689	436	172	28.29	28.29	Somatic	0.000	2
667720	2	80,865,351	C	T		0	3		0	370	7	1.86	177	129	42.16	42.16	Somatic	0.000	225	204	47.55	47.55	Somatic	0.000	1
667720	2	83,867,598	G	A		0	3		0	649	11	1.67	213	160	42.90	42.90	Somatic	0.000	193	177	47.84	47.84	Somatic	0.000	1
667720	2	97,908,125	A	G	TMEM131	3	intronic	753	18	2.33	360	282	43.93	43.93	Somatic	0.000	436	411	48.52	48.52	Somatic	0.000	1		
667720	2	103,271,343	T	C		0	3		0	595	16	2.62	695	553	44.31	44.31	Somatic	0.000	554	495	47.19	47.19	Somatic	0.000	1
667720	2	104,927,082	G	A	LOC100128684	3	intronic	405	7	1.70	330	207	38.55	38.55	Somatic	0.000	381	317	45.42	45.42	Somatic	0.000	1		
667720	2	108,238,768	T	C	SULT1C3	3	intronic	1071	32	2.90	597	381	38.96	38.96	Somatic	0.000	538	459	46.04	46.04	Somatic	0.000	1		
667720	2	114,245,944	G	A	SLC35F5	3	5_prime_flanking_region	527	10	1.86	376	236	38.56	38.56	Somatic	0.000	319	229	41.79	41.79	Somatic	0.000	1		
667720	2	114,445,471	T	A	LOC440900	3	5_prime_flanking_region	631	11	1.71	251	153	37.87	37.87	Somatic	0.000	279	239	46.14	46.14	Somatic	0.000	1		
667720	2	116,415,363	T	G		0	3		0	938	16	1.68	725	519	41.72	41.72	Somatic	0.000	632	536	45.89	45.89	Somatic	0.000	1
667720	2	117,904,625	G	A		0	3		0	1044	38	3.51	770	561	42.15	42.15	Somatic	0.000	601	549	47.74	47.74	Somatic	0.000	1
667720	2	118,742,817	G	A		0	3		0	450	12	2.60	488	377	43.58	43.58	Somatic	0.000	429	345	44.57	44.57	Somatic	0.000	1
667720	2	123,569,539	G	T		0	3		0	609	7	1.14	499	329	39.73	39.73	Somatic	0.000	436	309	41.48	41.48	Somatic	0.000	1
667720	2	124,471,728	G	A	CNTNAPS	3	intronic	583	9	1.52	377	263	41.09	41.09	Somatic	0.000	389	352	47.50	47.50	Somatic	0.000	1		
667720	2	128,892,911	T	A	LOC100130549	1	rna	450	6	1.32	174	151	46.46	46.46	Somatic	0.000	201	195	49.24	49.24	Somatic	0.000	1		
667720	2	129,164,824	G	A		0	3		0	365	7	1.88	152	113	42.64	42.64	Somatic	0.000	177	135	43.27	43.27	Somatic	0.000	1
667720	2	129,845,794	C	T		0	3		0	404	8	1.94	397	320	44.63	44.63	Somatic	0.000	353	355	50.14	50.14	Somatic	0.000	1
667720	2	132,023,605	C	T	LOC100127989	3	5_prime_flanking_region	427	9	2.06	126	65	34.03	34.03	Somatic	0.000	157	123	43.93	43.93	Somatic	0.000	1		
667720	2	132,570,542	G	A	ZNF72	3	5_prime_flanking_region	49	1	2.00	14	6	30.00	30.00	Somatic	0.002	21	19	47.50	47.50	Somatic	0.000	0		
667720	2	136,457,966	G	A	DARS	2	intronic	417	12	2.80	391	247	38.71	38.71	Somatic	0.000	350	342	49.42	49.42	Somatic	0.000	1		
667720	2	140,665,391	G	A	ENSG00000208282	2	5_prime_flanking_region	943	0	0.00	1020	4	0.39	0.39	Reference	0.073	792	399	33.50	33.50	Somatic	0.000	2		
667720	2	142,564,315	T	G	LRP1B	3	intronic	364	4	1.09	162	121	42.76	42.76	Somatic	0.000	200	171	46.09	46.09	Somatic	0.000	1		
667720	2	146,676,999	G	A	LOC100129653	3	intronic	387	5	1.28	239	135	36.10	36.10	Somatic	0.000	216	209	49.18	49.18	Somatic	0.000	1		
667720	2	159,735,134	T	G	TANCI	3	intronic	589	19	3.12	465	337	42.02	42.02	Somatic	0.000	499	412	45.23	45.23	Somatic	0.000	1		
667720	2	162,648,139	G	A	DPP4	3	5_prime_flanking_region	424	12	2.75	140	87	38.33	38.33	Somatic	0.000	219	164	42.82	42.82	Somatic	0.000	1		
667720	2	163,040,415	A	G	KCNH7	3	intronic	698	14	1.97	387	271	41.19	41.19	Somatic	0.000	549	459	45.54	45.54	Somatic	0.000	1		
667720	2	164,644,140	C	T		0	3		0	999	17	1.67	440	325	42.48	42.48	Somatic	0.000	449	412	45.23	45.23	Somatic	0.000	1
667720	2	176,126,145	T	C		0	2		0	1193	30	2.45	687	556	44.73	44.73	Somatic	0.000	517	521	50.19	50.19	Somatic	0.000	1
667720	2	180,125,426	G	A	ZNF385B	3	intronic	431	8	1.82	270	164	37.79	37.79	Somatic	0.000	280	287	50.62	50.62	Somatic	0.000	1		
667720	2	182,383,604	T	C	FAM171B	3	3_prime_flanking_region	239	7	2.85	208	153	42.38	42.38	Somatic	0.000	447	408	46.47	46.47	Somatic	0.000	1		
667720	2	195,617,671	T	C	LOC72954	3	5_prime_flanking_region	1013	26	2.50	521	413	44.22	44.22	Somatic	0.000	470	408	46.47	46.47	Somatic	0.000	1		
667720	2	196,287,722	G	A	SLC39A10	2	intronic	304	7	2.25	136	103	43.10	43.10	Somatic	0.000	236	199	45.75	45.75	Somatic	0.000	1		
667720	2	199,028,737	A	G		0	2		0	574	12	2.05	169	128	43.10	43.10	Somatic	0.000	257	200	43.76	43.76	Somatic	0.000	1
667720	2	201,299,882	C	A	ENSG00000201737	3	5_prime_flanking_region	619	16	2.52	366	274	42.68	42.68	Somatic	0.000	466	387	45.37	45.37	Somatic	0.000	1		
667720	2	204,694,417	G	C		0	3		0	1021	1	0.10	956												

667720	3	98,061,421	A	T	EPHA6	2	intronic	594	0	0.00	894	0	0.00	0.00	Reference	1,000	595	254	29.92	29.92	Somatic	0.000	2
667720	3	99,729,813	T	G	CLNDN1	3	5_prime_flanking_region	315	7	2.17	214	117	35.35	35.35	Somatic	0.000	239	153	39.03	39.03	Somatic	0.000	1
667720	3	100,922,510	G	A	COL8A1	3	intronic	685	1	0.15	796	1	0.13	0.13	Reference	0.786	473	198	29.51	29.51	Somatic	0.000	2
667720	3	101,805,009	C	G	GPR128	3	5_prime_flanking_region	782	24	2.98	850	564	39.89	39.89	Somatic	0.000	675	598	46.98	46.98	Somatic	0.000	1
667720	3	103,376,865	C	T	ZPLD1	3	intronic	756	30	3.82	603	481	44.37	44.37	Somatic	0.000	564	520	47.97	47.97	Somatic	0.000	1
667720	3	105,535,329	G	A	0	3	0	303	10	3.19	267	182	40.53	40.53	Somatic	0.000	349	286	45.04	45.04	Somatic	0.000	1
667720	3	107,412,020	C	T	0	3	0	422	15	3.43	359	241	40.17	40.17	Somatic	0.000	330	277	45.63	45.63	Somatic	0.000	1
667720	3	111,304,915	C	T	0	3	0	773	18	2.28	267	158	37.18	37.18	Somatic	0.000	398	313	44.02	44.02	Somatic	0.000	1
667720	3	112,475,093	T	A	0	3	0	1037	23	2.17	370	274	42.55	42.55	Somatic	0.000	441	435	49.66	49.66	Somatic	0.000	1
667720	3	120,170,888	G	A	IGSF11	2	intronic	479	8	1.64	527	288	35.34	35.34	Somatic	0.000	447	364	44.88	44.88	Somatic	0.000	1
667720	3	122,319,248	C	A	STXBP5L	3	intronic	113	2	1.74	54	28	34.15	34.15	Somatic	0.000	119	77	39.29	39.29	Somatic	0.000	0
667720	3	124,043,453	C	T	DIRC2	3	intronic	585	12	2.01	451	280	38.30	38.30	Somatic	0.000	435	417	48.94	48.94	Somatic	0.000	1
667720	3	126,514,375	C	T	ZNF148	3	intronic	591	18	2.96	547	390	41.62	41.62	Somatic	0.000	671	580	46.36	46.36	Somatic	0.000	1
667720	3	128,266,305	C	T	PLXNA1	3	5_prime_flanking_region	199	9	4.33	116	78	40.21	40.21	Somatic	0.000	105	123	53.95	53.95	Somatic	0.000	1
667720	3	129,682,668	G	T	GATA2	1	missense	199	6	2.93	87	57	39.58	39.58	Somatic	0.000	111	108	49.32	49.32	Somatic	0.000	1
667720	3	135,537,329	A	T	AMOTL2	3	5_prime_flanking_region	632	8	1.25	245	164	40.10	40.10	Somatic	0.000	287	236	45.12	45.12	Somatic	0.000	1
667720	3	135,744,194	A	C	CEP63	3	intronic	599	7	1.16	467	270	36.64	36.64	Somatic	0.000	409	328	44.50	44.50	Somatic	0.000	1
667720	3	138,665,306	C	G	0	3	0	933	33	3.42	789	626	44.24	44.24	Somatic	0.000	686	580	45.81	45.81	Somatic	0.000	1
667720	3	141,337,669	C	T	CLSTN2	3	intronic	563	12	2.09	518	352	40.46	40.46	Somatic	0.000	565	452	44.44	44.44	Somatic	0.000	1
667720	3	146,278,466	T	C	0	3	0	819	20	2.38	414	277	40.09	40.09	Somatic	0.000	424	356	45.64	45.64	Somatic	0.000	1
667720	3	149,128,811	G	T	ENSG00000221431	3	5_prime_flanking_region	854	24	2.73	474	352	42.62	42.62	Somatic	0.000	408	362	47.01	47.01	Somatic	0.000	1
667720	3	149,149,295	C	T	ENSG00000221431	2	5_prime_flanking_region	801	0	0.00	1308	1	0.08	0.08	Reference	0.620	769	324	29.64	29.64	Somatic	0.000	2
667720	3	153,676,784	T	C	MBNL1	3	5_prime_flanking_region	493	10	1.99	510	403	44.14	44.14	Somatic	0.000	411	344	45.56	45.56	Somatic	0.000	1
667720	3	154,421,738	G	A	ENSG00000222228	3	5_prime_flanking_region	472	17	3.48	110	66	37.50	37.50	Somatic	0.000	169	150	47.02	47.02	Somatic	0.000	1
667720	3	155,050,110	T	A	0	3	0	567	22	3.74	453	338	42.73	42.73	Somatic	0.000	456	401	46.79	46.79	Somatic	0.000	1
667720	3	167,328,880	A	G	ENSG00000208609	3	5_prime_flanking_region	596	17	2.77	365	271	42.61	42.61	Somatic	0.000	449	452	50.17	50.17	Somatic	0.000	1
667720	3	168,348,182	A	T	0	3	0	356	13	3.52	142	94	39.83	39.83	Somatic	0.000	247	180	42.15	42.15	Somatic	0.000	1
667720	3	169,392,029	G	A	0	3	0	577	5	0.86	336	227	40.32	40.32	Somatic	0.000	471	377	44.46	44.46	Somatic	0.000	1
667720	3	169,622,249	G	C	LOC389174	3	intronic	461	11	2.33	322	241	42.81	42.81	Somatic	0.000	456	331	42.06	42.06	Somatic	0.000	1
667720	3	177,759,070	A	T	0	3	0	920	20	2.13	483	276	36.36	36.36	Somatic	0.000	553	494	47.18	47.18	Somatic	0.000	1
667720	3	183,100,450	C	G	ENSG00000213155	3	5_prime_flanking_region	583	1	0.17	637	0	0.00	0.00	Reference	0.478	450	190	29.69	29.69	Somatic	0.000	2
667720	3	183,480,150	A	G	0	3	0	1194	13	1.08	166	150	47.47	47.47	Somatic	0.000	284	300	51.37	51.37	Somatic	0.000	1
667720	3	195,720,024	G	A	ATP13A3	3	5_prime_flanking_region	699	20	2.78	298	209	41.22	41.22	Somatic	0.000	367	315	46.19	46.19	Somatic	0.000	1
667720	4	3,436,697	C	G	DOK7	3	intronic	303	1	0.33	122	0	0.00	0.00	Reference	0.714	163	52	24.19	24.19	Somatic	0.000	2
667720	4	3,772,751	G	C	ADRA2C	3	5_prime_flanking_region	413	3	0.72	246	233	48.64	48.64	Somatic	0.000	323	317	49.53	49.53	Somatic	0.000	1
667720	4	4,812,064	T	C	0	2	0	667	8	1.19	307	210	40.62	40.62	Somatic	0.000	357	312	46.64	46.64	Somatic	0.000	1
667720	4	8,205,108	C	T	ABLM12	2	intronic	189	0	0.00	145	0	0.00	0.00	Reference	1,000	191	104	35.25	35.25	Somatic	0.000	2
667720	4	18,301,054	A	G	0	3	0	695	17	2.39	392	301	43.43	43.43	Somatic	0.000	452	458	50.33	50.33	Somatic	0.000	1
667720	4	19,793,712	C	G	0	3	0	884	7	0.79	302	242	44.49	44.49	Somatic	0.000	345	300	46.51	46.51	Somatic	0.000	1
667720	4	26,175,414	G	A	0	3	0	618	14	2.22	545	370	40.44	40.44	Somatic	0.000	482	449	48.23	48.23	Somatic	0.000	1
667720	4	26,925,249	C	T	0	3	0	1067	18	1.66	735	448	37.87	37.87	Somatic	0.000	650	588	47.50	47.50	Somatic	0.000	1
667720	4	27,506,672	G	T	0	3	0	834	0	0.00	666	1	0.15	0.15	Reference	0.444	535	247	31.59	31.59	Somatic	0.000	2
667720	4	28,089,692	A	G	0	3	0	920	8	0.86	638	534	45.56	45.56	Somatic	0.000	522	557	51.62	51.62	Somatic	0.000	1
667720	4	29,719,054	T	A	0	3	0	626	1	0.16	275	133	32.60	32.60	Somatic	0.000	243	255	51.20	51.20	Somatic	0.000	1
667720	4	31,915,614	G	A	LOC100130644	3	intronic	716	29	3.89	464	318	40.66	40.66	Somatic	0.000	468	450	49.02	49.02	Somatic	0.000	1
667720	4	36,523,066	G	A	0	3	0	626	0	0.00	547	0	0.00	0.00	Reference	1,000	608	103	14.49	14.49	Somatic	0.000	0
667720	4	42,683,197	C	G	GRXCR1	3	intronic	245	0	0.00	619	0	0.00	0.00	Reference	1,000	499	138	21.66	21.66	Somatic	0.000	2
667720	4	42,828,437	A	T	0	3	0	505	7	1.37	239	188	44.03	44.03	Somatic	0.000	323	281	46.52	46.52	Somatic	0.000	1
667720	4	44,065,569	A	G	KCTD8	3	intronic	535	18	3.25	366	274	42.61	42.61	Somatic	0.000	377	360	48.85	48.85	Somatic	0.000	1
667720	4	44,140,679	C	T	KCTD8	3	intronic	512	11	2.10	246	179	42.12	42.12	Somatic	0.000	266	234	46.80	46.80	Somatic	0.000	1
667720	4	47,958,253	T	G	TEC	3	intronic	523	13	2.43	154	98	38.89	38.89	Somatic	0.000	212	194	47.78	47.78	Somatic	0.000	1
667720	4	52,520,857	C	T	DCUN1D4	3	5_prime_flanking_region	748	2	0.27	1700	2	0.12	0.12	Reference	0.912	1076	412	27.69	27.69	Somatic	0.000	2
667720	4	53,164,447	T	A	USP46	3	intronic	1079	21	1.91	692	533	43.51	43.51	Somatic	0.000	591	542	47.84	47.84	Somatic	0.000	1
667720	4	58,837,318	C	T	0	3	0	378	10	2.58	348	242	41.02	41.02	Somatic	0.000	177	104	37.01	37.01	Somatic	0.000	0
667720	4	59,281,481	G	T	0	3	0	169	0	0.00	122	0	0.00										

667720	4	171,751,749	C	T	HSP90AA6P	3	intronic	613	15	2.39	431	330	43.36	43.36	Somatic	0.000	347	352	50.36	50.36	Somatic	0.000	1	
667720	4	172,127,417	C	T	GALNTL6	3	intronic	0	357	7	1.92	380	232	37.91	37.91	Somatic	0.000	289	229	44.21	44.21	Somatic	0.000	1
667720	4	174,197,051	A	G		0	3	0	1302	10	0.76	477	349	42.25	42.25	Somatic	0.000	445	396	47.09	47.09	Somatic	0.000	1
667720	4	175,298,981	A	G		0	3	0	786	25	3.08	460	347	43.00	43.00	Somatic	0.000	386	356	47.98	47.98	Somatic	0.000	1
667720	4	178,253,537	C	G		0	3	0	194	0	0.00	182	1	0.55	0.55	Reference	0.485	230	107	31.75	31.75	Somatic	0.000	2
667720	4	186,127,944	C	T	LOC728203	3	_5_prime_flanking_region	219	13	5.60	717	462	39.19	39.19	Somatic	0.000	586	550	48.42	48.42	Somatic	0.000	1	
667720	4	187,663,417	C	T	MTNR1A	3	_3_prime_flanking_region	357	15	4.03	166	128	43.54	43.54	Somatic	0.000	182	160	46.78	46.78	Somatic	0.000	1	
667720	4	189,346,627	T	C	TRIM1	3	_3_prime_flanking_region	457	6	1.30	158	114	41.91	41.91	Somatic	0.000	203	209	50.73	50.73	Somatic	0.000	1	
667720	4	190,056,950	G	A		0	3	0	810	17	2.06	521	321	38.12	38.12	Somatic	0.000	445	383	46.26	46.26	Somatic	0.000	1
667720	5	4,519,944	A	C		0	3	0	706	12	1.67	326	227	41.05	41.05	Somatic	0.000	465	403	46.43	46.43	Somatic	0.000	1
667720	5	4,696,764	G	A		0	2	0	292	4	1.35	217	164	43.04	43.04	Somatic	0.000	227	174	43.39	43.39	Somatic	0.000	1
667720	5	5,433,839	C	T	KIAA0947	3	_5_prime_flanking_region	788	15	1.87	428	313	42.24	42.24	Somatic	0.000	419	380	47.56	47.56	Somatic	0.000	1	
667720	5	8,172,085	T	C		0	3	0	899	9	0.99	363	298	45.08	45.08	Somatic	0.000	346	296	46.11	46.11	Somatic	0.000	1
667720	5	19,499,562	G	A	CDH18	2	_3_prime_flanking_region	359	7	1.91	405	271	40.09	40.09	Somatic	0.000	452	399	46.89	46.89	Somatic	0.000	1	
667720	5	19,758,257	T	A	CDH18	3	intronic	324	6	1.82	329	224	40.51	40.51	Somatic	0.000	314	280	47.14	47.14	Somatic	0.000	1	
667720	5	21,892,993	T	A	CDH12	3	intronic	440	0	0.00	497	0	0.00	0.00	Reference	1.000	412	157	27.59	27.59	Somatic	0.000	2	
667720	5	23,100,076	T	A		0	3	0	501	11	2.15	488	300	38.07	38.07	Somatic	0.000	344	289	45.66	45.66	Somatic	0.000	1
667720	5	25,625,919	A	G		0	3	0	1024	15	1.44	625	430	40.76	40.76	Somatic	0.000	461	417	47.49	47.49	Somatic	0.000	1
667720	5	26,577,016	G	A		0	3	0	890	1	0.11	1059	0	0.00	0.00	Reference	0.457	719	308	29.99	29.99	Somatic	0.000	2
667720	5	27,660,624	G	T		0	3	0	518	15	2.81	344	270	43.97	43.97	Somatic	0.000	373	351	48.48	48.48	Somatic	0.000	1
667720	5	28,022,124	G	A	ENSG00000221721	1	rna	353	1	0.28	193	134	40.98	40.98	Somatic	0.000	170	151	47.04	47.04	Somatic	0.000	1	
667720	5	30,251,283	G	A		0	3	0	1107	23	2.04	398	284	41.64	41.64	Somatic	0.000	383	353	47.96	47.96	Somatic	0.000	1
667720	5	33,969,528	T	C	ADAMTS12	3	_5_prime_flanking_region	392	1	0.25	304	3	0.98	0.98	Somatic	0.226	269	102	27.49	27.49	Somatic	0.000	0	
667720	5	36,637,233	T	C	SLC1A3	3	_5_prime_flanking_region	940	20	2.08	381	312	45.02	45.02	Somatic	0.000	365	367	50.14	50.14	Somatic	0.000	1	
667720	5	38,176,241	A	G		0	3	0	578	18	3.02	566	399	41.35	41.35	Somatic	0.000	573	492	46.20	46.20	Somatic	0.000	1
667720	5	41,240,264	C	T	C6	3	intronic	434	23	5.03	382	203	34.70	34.70	Somatic	0.000	499	416	45.46	45.46	Somatic	0.000	1	
667720	5	42,279,697	C	T		0	3	0	851	28	3.19	613	425	40.94	40.94	Somatic	0.000	550	478	46.50	46.50	Somatic	0.000	1
667720	5	42,540,875	A	G	GHR	3	intronic	592	13	2.15	496	416	45.61	45.61	Somatic	0.000	519	477	47.89	47.89	Somatic	0.000	1	
667720	5	45,289,239	G	A	HCN1	3	_3_prime_flanking_region	454	10	2.16	444	399	47.33	47.33	Somatic	0.000	455	362	44.31	44.31	Somatic	0.000	1	
667720	5	45,566,542	A	G	LOC642366	3	_5_prime_flanking_region	487	0	0.00	427	1	0.23	0.23	Reference	0.468	391	201	33.95	33.95	Somatic	0.000	2	
667720	5	50,733,499	C	G	PJA2	3	_5_prime_flanking_region	682	23	3.25	433	296	40.60	40.60	Somatic	0.000	460	371	44.65	44.65	Somatic	0.000	1	
667720	5	52,701,180	G	A	LOC345645	3	_5_prime_flanking_region	378	13	3.32	463	334	41.91	41.91	Somatic	0.000	432	363	45.66	45.66	Somatic	0.000	1	
667720	5	55,650,168	G	A	PDE4D	3	intronic	618	12	1.90	285	178	38.44	38.44	Somatic	0.000	373	315	45.78	45.78	Somatic	0.000	1	
667720	5	56,006,920	A	G	SGTB	3	intronic	587	0	0.00	601	1	0.17	0.17	Reference	0.506	515	216	29.55	29.55	Somatic	0.000	2	
667720	5	67,699,088	C	T		0	2	0	842	19	2.21	659	455	40.84	40.84	Somatic	0.000	524	526	50.10	50.10	Somatic	0.000	1
667720	5	85,266,470	G	A	PAM	3	_5_prime_flanking_region	745	18	2.36	452	279	38.17	38.17	Somatic	0.000	295	271	47.88	47.88	Somatic	0.000	1	
667720	5	92,582,821	G	T	LOC391811	3	_5_prime_flanking_region	231	6	2.53	312	267	46.11	46.11	Somatic	0.000	329	264	44.52	44.52	Somatic	0.000	1	
667720	5	94,232,205	G	A	MCTP1	2	intronic	517	17	3.18	368	305	45.32	45.32	Somatic	0.000	335	301	47.33	47.33	Somatic	0.000	1	
667720	5	95,710,879	C	A	PCSK1	3	_3_prime_flanking_region	679	9	1.31	394	257	39.48	39.48	Somatic	0.000	416	340	44.97	44.97	Somatic	0.000	1	
667720	5	98,299,366	T	C	CHD1	2	_5_prime_flanking_region	695	13	1.84	343	277	44.68	44.68	Somatic	0.000	350	358	50.56	50.56	Somatic	0.000	1	
667720	5	99,006,663	C	T		0	3	0	472	13	2.68	238	125	34.44	34.44	Somatic	0.000	258	248	49.01	49.01	Somatic	0.000	1
667720	5	102,187,524	C	A	PAM	3	_5_prime_flanking_region	745	18	2.36	452	279	38.17	38.17	Somatic	0.000	517	370	41.71	41.71	Somatic	0.000	1	
667720	5	104,386,046	A	T		0	3	0	553	2	0.36	1271	2	0.16	0.16	Reference	0.914	832	382	31.47	31.47	Somatic	0.000	2
667720	5	104,487,724	G	T	RABP9P1	3	_3_prime_flanking_region	212	6	2.75	165	92	35.80	35.80	Somatic	0.000	215	171	44.30	44.30	Somatic	0.000	1	
667720	5	105,045,690	C	T		0	3	0	641	25	3.75	720	479	39.95	39.95	Somatic	0.000	631	504	44.41	44.41	Somatic	0.000	1
667720	5	108,677,796	C	G	PJA2	3	_3_prime_flanking_region	973	0	0.00	825	0	0.00	0.00	Reference	1.000	584	239	29.04	29.04	Somatic	0.000	2	
667720	5	113,273,629	A	G	G	0	3	0	645	12	1.83	563	421	42.78	42.78	Somatic	0.000	483	473	49.48	49.48	Somatic	0.000	1
667720	5	114,372,559	G	A	G	0	3	0	670	8	1.18	231	200	46.40	46.40	Somatic	0.000	271	231	46.02	46.02	Somatic	0.000	1
667720	5	116,158,295	C	T		0	3	0	616	12	1.91	225	156	40.94	40.94	Somatic	0.000	302	236	43.87	43.87	Somatic	0.000	1
667720	5	117,911,395	C	T		0	2	0	235	3	1.26	256	150	36.95	36.95	Somatic	0.000	194	175	47.43	47.43	Somatic	0.000	1
667720	5	120,193,657	A	G		0	3	0	489	9	1.81	503	365	42.05	42.05	Somatic	0.000	454	398	46.71	46.71	Somatic	0.000	1
667720	5	131,150,155	G	C	FNIP1	3	intronic	468	7	1.47	358	259	41.98	41.98	Somatic	0.000	177	115	39.38	39.38	Somatic	0.000	0	
667720	5	133,274,980	G	A	C5orf15	3	_3_prime_flanking_region	618	13	2.06	512	342	40.05	40.05	Somatic	0.000	476	434	47.69	47.69	Somatic	0.000	1	
667720	5	133,563,049	C	G	PPP2CA	3	intronic	630	8	1.25	454	14	2.99	2.99	Somatic	0.035	413	158	27.67	27.67	Somatic	0.000	0	
667720	5	134,84																						

667720	6	88,920,817	G	A	CNR1	3	intronic	390	4	1.02	152	120	44.12	44.12	Somatic	0.000	220	193	46.73	46.73	Somatic	0.000	1	
667720	6	96,492,580	T	C	KRT18P50	3	_prime_flanking_region	472	7	1.46	326	239	42.30	42.30	Somatic	0.000	331	247	42.73	42.73	Somatic	0.000	1	
667720	6	96,739,607	G	A	FUT9	3	intronic	1305	18	1.36	507	388	43.35	43.35	Somatic	0.000	455	432	48.70	48.70	Somatic	0.000	1	
667720	6	97,017,890	G	A	0 2	742	17	2.24	515	327	38.84	38.84	Somatic	0.000	601	512	46.00	46.00	Somatic	0.000	1			
667720	6	100,508,541	C	T	MCHR2	3	intronic	262	12	4.38	400	208	34.21	34.21	Somatic	0.000	370	270	42.19	42.19	Somatic	0.000	1	
667720	6	103,001,076	T	C	LOC100132919	3	_prime_flanking_region	464	17	3.53	161	133	45.24	45.24	Somatic	0.000	230	177	43.49	43.49	Somatic	0.000	1	
667720	6	103,834,365	C	T	0 3	497	8	1.58	340	253	42.66	42.66	Somatic	0.000	296	298	50.17	50.17	Somatic	0.000	1			
667720	6	104,911,648	C	T	UTRN	3	intronic	0 3	283	7	2.41	140	63	31.03	31.03	Somatic	0.000	161	135	45.61	45.61	Somatic	0.000	1
667720	6	108,590,603	C	T	NR2E1	2	_prime_flanking_region	655	9	1.36	312	224	41.79	41.79	Somatic	0.000	391	347	47.02	47.02	Somatic	0.000	1	
667720	6	120,493,316	A	C	0 3	690	18	2.54	240	162	40.30	40.30	Somatic	0.000	304	219	41.87	41.87	Somatic	0.000	1			
667720	6	125,746,146	G	A	0 3	628	7	1.10	471	311	39.77	39.77	Somatic	0.000	463	375	44.75	44.75	Somatic	0.000	1			
667720	6	128,730,099	C	T	PTPRK	2	intronic	571	10	1.72	478	344	41.85	41.85	Somatic	0.000	468	447	48.85	48.85	Somatic	0.000	1	
667720	6	133,541,494	C	T	ENSG00000220113	3	_prime_flanking_region	753	16	2.08	329	237	41.87	41.87	Somatic	0.000	518	415	44.48	44.48	Somatic	0.000	1	
667720	6	144,664,308	T	C	0 3	911	1	0.11	647	2	0.31	0.31	Reference	0.375	450	233	34.11	34.11	Somatic	0.000	2			
667720	6	147,983,834	C	T	0 3	408	7	1.69	332	70	17.41	17.41	Somatic	0.000	296	96	24.49	24.49	Somatic	0.000	0			
667720	6	152,834,406	C	A	SYNE1	3	intronic	518	9	1.71	418	225	34.99	34.99	Somatic	0.000	340	301	46.96	46.96	Somatic	0.000	1	
667720	6	160,230,496	C	T	MAS1	3	_prime_flanking_region	597	7	1.16	576	398	40.86	40.86	Somatic	0.000	440	471	51.70	51.70	Somatic	0.000	1	
667720	6	164,439,952	G	T	LOC728275	3	intronic	1023	0	0.00	1736	1	0.06	0.06	Reference	0.629	1110	428	27.83	27.83	Somatic	0.000	2	
667720	6	166,834,462	C	T	RP56KA2	3	intronic	360	0	0.00	443	1	0.23	0.23	Reference	0.552	400	179	30.92	30.92	Somatic	0.000	2	
667720	7	10,779,014	G	A	LOC100134489	3	_prime_flanking_region	948	11	1.15	476	296	38.34	38.34	Somatic	0.000	406	350	46.30	46.30	Somatic	0.000	1	
667720	7	14,267,966	C	T	DGKB	3	intronic	554	21	3.65	206	123	37.16	37.16	Somatic	0.000	361	236	39.53	39.53	Somatic	0.000	1	
667720	7	15,300,799	A	T	TMEM195	3	intronic	390	14	3.47	248	183	42.46	42.46	Somatic	0.000	301	262	46.54	46.54	Somatic	0.000	1	
667720	7	18,913,695	T	C	HDAC9	3	intronic	651	9	1.36	352	236	40.14	40.14	Somatic	0.000	324	304	48.41	48.41	Somatic	0.000	1	
667720	7	21,644,131	A	G	DNAH11	3	intronic	735	1	0.14	623	1	0.16	0.16	Reference	0.707	650	247	27.54	27.54	Somatic	0.000	2	
667720	7	26,544,649	C	T	KIAA0087	1	missense	421	6	1.41	214	167	43.83	43.83	Somatic	0.000	250	240	48.98	48.98	Somatic	0.000	1	
667720	7	28,128,767	C	T	JAZF1	3	intronic	741	13	1.72	633	457	41.93	41.93	Somatic	0.000	416	389	48.32	48.32	Somatic	0.000	1	
667720	7	32,592,316	A	G	AVL9	3	intronic	540	15	2.70	325	276	45.92	45.92	Somatic	0.000	437	406	48.16	48.16	Somatic	0.000	1	
667720	7	35,285,398	C	T	TBX20	3	_prime_flanking_region	649	1	0.15	785	3	0.38	0.38	Reference	0.387	520	217	29.44	29.44	Somatic	0.000	2	
667720	7	41,352,421	C	T	0 3	859	27	3.05	1580	1054	40.02	40.02	Somatic	0.000	1102	923	45.58	45.58	Somatic	0.000	1			
667720	7	45,169,490	T	C	RAMP3	3	intronic	945	23	2.38	455	380	45.51	45.51	Somatic	0.000	521	458	46.78	46.78	Somatic	0.000	1	
667720	7	53,278,933	C	T	0 3	891	1	0.11	1118	1	0.09	0.09	Reference	0.803	896	368	29.11	29.11	Somatic	0.000	2			
667720	7	53,893,472	C	T	FLI45974	3	_prime_flanking_region	518	10	1.89	431	332	43.51	43.51	Somatic	0.000	403	385	48.86	48.86	Somatic	0.000	1	
667720	7	55,603,143	C	G	ECOP	3	intronic	475	0	0.00	245	0	0.00	0.00	Reference	1.000	300	129	30.07	30.07	Somatic	0.000	2	
667720	7	63,027,914	G	T	ENSG00000213645	3	_prime_flanking_region	337	4	1.17	250	184	42.40	42.40	Somatic	0.000	331	270	44.93	44.93	Somatic	0.000	1	
667720	7	68,054,403	A	T	0 3	580	8	1.36	316	224	41.48	41.48	Somatic	0.000	284	239	45.70	45.70	Somatic	0.000	1			
667720	7	69,707,484	C	T	AUTS2	3	intronic	595	10	1.65	336	251	42.76	42.76	Somatic	0.000	300	299	49.92	49.92	Somatic	0.000	1	
667720	7	70,800,062	G	A	WBSCR17	3	intronic	789	17	2.11	287	144	33.41	33.41	Somatic	0.000	291	192	39.75	39.75	Somatic	0.000	0	
667720	7	82,622,564	C	T	PCLO	1	splice_site	273	0	0.00	390	1	0.26	0.26	Reference	0.589	280	111	28.39	28.39	Somatic	0.000	2	
667720	7	88,381,237	C	T	ZNF804B	2	intronic	530	13	2.39	404	289	41.70	41.70	Somatic	0.000	372	347	48.26	48.26	Somatic	0.000	1	
667720	7	89,568,729	G	A	DPY19L2P4	3	_prime_flanking_region	1025	14	1.35	745	429	36.54	36.54	Somatic	0.000	507	514	50.34	50.34	Somatic	0.000	1	
667720	7	90,367,957	G	A	PFTK1	2	intronic	619	20	3.13	453	273	37.60	37.60	Somatic	0.000	346	264	43.28	43.28	Somatic	0.000	1	
667720	7	102,801,945	G	A	SLC26A5	3	_prime_untranslated_region	748	17	2.22	572	379	39.85	39.85	Somatic	0.000	619	564	47.68	47.68	Somatic	0.000	1	
667720	7	115,253,618	C	T	ENSG00000199224	3	_prime_flanking_region	201	6	2.90	33	155	82.45	82.45	Somatic	0.000	21	258	92.47	92.47	Somatic	0.000	0	
667720	7	117,255,681	C	T	CTTNBP2	2	intronic	601	22	3.53	149	795	84.22	84.22	Somatic	0.000	47	761	94.18	94.18	Somatic	0.000	0	
667720	7	118,273,061	T	C	0 3	906	1	0.11	394	3	0.76	0.54	Somatic	0.087	302	223	42.48	42.48	Somatic	0.000	0			
667720	7	119,566,349	T	A	0 3	1060	1	0.09	1311	2	0.15	0.15	Reference	0.579	887	372	29.55	29.55	Somatic	0.000	2			
667720	7	126,760,069	G	A	ZNF800	3	_prime_flanking_region	481	23	4.56	44	194	81.51	81.51	Somatic	0.000	29	307	91.37	91.37	Somatic	0.000	0	
667720	7	133,544,721	C	T	LRGUK	3	intronic	378	0	0.00	679	2	0.29	0.29	Reference	0.413	550	223	28.85	28.85	Somatic	0.000	2	
667720	7	133,713,177	C	T	ENSG00000221513	3	_prime_flanking_region	517	14	2.64	97	40	29.20	29.20	Somatic	0.000	20	25	55.56	55.56	Somatic	0.000	0	
667720	7	133,713,178	C	A	ENSG00000221513	3	_prime_flanking_region	520	19	3.53	108	47	30.32	30.32	Somatic	0.000	25	33	56.90	56.90	Somatic	0.000	0	
667720	7	141,407,236	G	C	MGAM	3	intronic	546	22	3.87	60	45	42.86	42.86	Somatic	0.000	18	25	58.14	58.14	Somatic	0.000	0	
667720	7	143,372,539	C	A	OR2A5	3	_prime_flanking_region	639	27	4.05	74	492	86.93	86.93	Somatic	0.000	37	575	93.95	93.95	Somatic	0.000	0	
667720	7	144,640,188	A	G	0 3	885	1	0.11	845	4	0.47	0.47	Reference	0.174	620	282	31.26	31.26	Somatic	0.000	2			
667720	7	153,709,873	C	T	DPP6	2	intronic	662	27	3.92	120	673	84.87	84.87	Somatic	0.000	58	820	93.39	93.39	Somatic	0.000	0	
667720	8	6,018,063	G	A	0 3	590	25	4.07	432	283	39.58	39.58	Somatic	0.000	447	395	46.91	46.91	Somatic	0.000	1			
667720	8																							

667720	8	131,927,740	C	G	ADCY8	3	intronic		872	17	1.91	903	652	41.93	41.93	Somatic	0.000	868	756	46.55	46.55	Somatic	0.000	1	
667720	8	135,039,927	T	C	KHDRBS3	0	3	intronic	0	598	15	2.45	350	238	40.48	40.48	Somatic	0.000	393	328	45.49	45.49	Somatic	0.000	1
667720	8	136,699,880	G	T	C	3	intronic		431	5	1.15	221	54	19.64	19.64	Somatic	0.000	357	125	25.93	25.93	Somatic	0.000	0	
667720	8	137,262,903	C	T	C	3	intronic		0	1773	31	1.72	748	474	38.79	38.79	Somatic	0.000	684	560	45.02	45.02	Somatic	0.000	1
667720	9	4,645,858	T	C	C9orf68	3	intronic		490	7	1.41	213	144	40.34	40.34	Somatic	0.000	245	224	47.76	47.76	Somatic	0.000	1	
667720	9	9,096,866	G	T	PTPRD	3	intronic		601	10	1.64	605	409	40.34	40.34	Somatic	0.000	545	523	48.97	48.97	Somatic	0.000	1	
667720	9	12,060,437	T	C		0	3		0	579	0	0.00	700	3	0.43	0.43	Reference	0.165	574	251	30.42	30.42	Somatic	0.000	2
667720	9	13,642,473	G	A		0	3		0	927	19	2.01	712	486	40.57	40.57	Somatic	0.000	575	503	46.66	46.66	Somatic	0.000	1
667720	9	17,691,467	G	A	SH3GL2	3	intronic		525	6	1.13	350	237	40.37	40.37	Somatic	0.000	299	288	49.06	49.06	Somatic	0.000	1	
667720	9	19,351,960	T	G	DENND4C	1	missense		337	12	3.44	251	178	41.49	41.49	Somatic	0.000	280	272	49.28	49.28	Somatic	0.000	1	
667720	9	21,468,424	C	T	ENSG00000171889	3	intronic		398	10	2.45	252	172	40.57	40.57	Somatic	0.000	263	212	44.63	44.63	Somatic	0.000	1	
667720	9	24,701,980	C	T		0	2		0	714	11	1.52	328	218	39.93	39.93	Somatic	0.000	325	306	48.49	48.49	Somatic	0.000	1
667720	9	25,088,894	C	A	ENSG00000222693	3	_5_prime_flanking_region		442	13	2.86	298	195	39.55	39.55	Somatic	0.000	393	353	47.32	47.32	Somatic	0.000	1	
667720	9	25,729,735	T	C		0	3		0	299	9	2.92	117	81	40.91	40.91	Somatic	0.000	157	175	52.71	52.71	Somatic	0.000	1
667720	9	26,058,180	C	T	ENSG00000196478	3	intronic		465	13	2.72	351	217	38.20	38.20	Somatic	0.000	448	324	41.97	41.97	Somatic	0.000	1	
667720	9	27,277,066	C	G	C9orf11	3	intronic		417	0	0.00	184	0	0.00	0.00	Reference	1.000	272	118	30.26	30.26	Somatic	0.000	2	
667720	9	28,175,986	G	A	LINGO2	3	intronic		336	6	1.75	60	42	41.18	41.18	Somatic	0.000	69	71	50.71	50.71	Somatic	0.000	1	
667720	9	35,915,753	T	G	LOC100130309	3	_5_prime_flanking_region		550	11	1.96	106	124	53.91	53.91	Somatic	0.000	223	285	56.10	56.10	Somatic	0.000	0	
667720	9	71,389,460	C	G	APBA1	3	intronic		749	21	2.73	418	238	36.28	36.28	Somatic	0.000	417	368	46.88	46.88	Somatic	0.000	1	
667720	9	82,562,717	C	T	ENSG00000221581	3	_5_prime_flanking_region		79	1	1.25	19	23	54.76	54.76	Somatic	0.000	53	43	44.79	44.79	Somatic	0.000	0	
667720	9	85,858,358	T	C	ENSG00000217785	3	_5_prime_flanking_region		1055	19	1.77	550	344	38.48	38.48	Somatic	0.000	512	463	47.49	47.49	Somatic	0.000	1	
667720	9	95,072,289	G	A	WNK2	3	intronic		196	1	0.51	112	87	43.72	43.72	Somatic	0.000	139	111	44.40	44.40	Somatic	0.000	1	
667720	9	103,593,601	C	A	ENSG00000218051	3	_3_prime_flanking_region		972	9	0.92	596	367	38.11	38.11	Somatic	0.000	482	379	44.02	44.02	Somatic	0.000	1	
667720	9	103,844,294	C	T	ENSG00000219129	2	_3_prime_flanking_region		722	15	2.04	543	379	41.11	41.11	Somatic	0.000	497	489	49.59	49.59	Somatic	0.000	1	
667720	9	116,935,055	G	A	TNC	3	_5_prime_flanking_region		613	7	1.13	513	271	34.57	34.57	Somatic	0.000	367	344	48.38	48.38	Somatic	0.000	1	
667720	9	118,851,564	G	A	ASTN2	3	intronic		737	12	1.60	381	303	44.30	44.30	Somatic	0.000	444	351	44.15	44.15	Somatic	0.000	1	
667720	9	120,709,503	G	A		0	2		0	375	0	0.00	627	5	0.79	0.79	Somatic	0.097	493	222	31.05	31.05	Somatic	0.000	0
667720	9	120,969,977	G	A	DBC1	1	missense		419	15	3.46	649	423	39.46	39.46	Somatic	0.000	475	370	43.79	43.79	Somatic	0.000	1	
667720	9	121,994,120	G	A		0	3		0	1545	45	2.83	661	552	45.51	45.51	Somatic	0.000	597	533	47.17	47.17	Somatic	0.000	1
667720	9	123,558,035	T	C	DAB2IP	3	intronic		304	4	1.30	191	154	44.64	44.64	Somatic	0.000	281	255	47.57	47.57	Somatic	0.000	1	
667720	9	127,204,762	C	T	ENSG00000218647	2	_5_prime_flanking_region		193	7	3.50	55	31	36.05	36.05	Somatic	0.000	105	92	46.70	46.70	Somatic	0.000	1	
667720	9	128,001,792	T	A		0	3		0	526	9	1.68	146	79	35.11	35.11	Somatic	0.000	233	175	42.89	42.89	Somatic	0.000	1
667720	9	131,532,893	T	A	PRRX2	3	_3_prime_flanking_region		82	2	2.38	16	17	51.52	51.52	Somatic	0.000	29	33	53.23	53.23	Somatic	0.000	0	
667720	9	132,649,532	G	A	ABL1	3	intronic		432	0	0.00	334	0	0.00	0.00	Reference	1.000	422	137	24.51	24.51	Somatic	0.000	2	
667720	9	135,003,230	G	A	RALGDS	2	intronic		179	6	3.24	77	41	34.75	34.75	Somatic	0.000	142	126	47.01	47.01	Somatic	0.000	1	
667720	9	137,696,865	C	T	LCN9	3	intronic		305	8	2.56	199	151	43.14	43.14	Somatic	0.000	256	244	48.80	48.80	Somatic	0.000	1	
667720	10	424,637	G	A	DIP2C	3	intronic		466	7	1.48	346	248	41.75	41.75	Somatic	0.000	292	279	48.86	48.86	Somatic	0.000	1	
667720	10	9,072,493	T	C		0	3		0	533	14	2.56	347	163	31.96	31.96	Somatic	0.000	399	298	42.75	42.75	Somatic	0.000	1
667720	10	10,555,511	C	T		0	3		0	427	8	1.84	158	125	44.17	44.17	Somatic	0.000	264	245	48.13	48.13	Somatic	0.000	1
667720	10	14,090,233	G	C	FRMD4A	3	_5_prime untranslated_region		358	6	1.65	121	89	42.38	42.38	Somatic	0.000	189	109	36.58	36.58	Somatic	0.000	0	
667720	10	14,235,023	G	A	FRMD4A	3	intronic		544	9	1.63	466	338	42.04	42.04	Somatic	0.000	392	326	45.40	45.40	Somatic	0.000	1	
667720	10	14,742,294	G	A	FAM107B	3	intronic		730	12	1.62	443	319	41.86	41.86	Somatic	0.000	537	396	42.44	42.44	Somatic	0.000	1	
667720	10	14,977,166	C	T	LOC729195	2	intronic		645	1	0.15	1426	7	0.49	0.49	Somatic	0.234	897	491	35.37	35.37	Somatic	0.000	0	
667720	10	21,346,331	G	A	NEBL	3	intronic		1124	0	0.00	1607	1	0.06	0.06	Reference	0.589	1115	456	29.03	29.03	Somatic	0.000	2	
667720	10	27,709,139	G	C	LOC729549	3	_5_prime_flanking_region		466	13	2.71	180	122	40.40	40.40	Somatic	0.000	163	138	45.85	45.85	Somatic	0.000	1	
667720	10	29,778,931	G	C	SVIL	3	_3_prime_flanking_region		1151	0	0.00	888	0	0.00	0.00	Reference	1.000	392	326	30.01	30.01	Somatic	0.000	2	
667720	10	32,135,334	G	A	ARHGAP12	2	_3_prime untranslated_region		363	12	3.20	185	111	37.50	37.50	Somatic	0.000	207	191	47.99	47.99	Somatic	0.000	1	
667720	10	34,369,486	C	T	LOC646360	3	_3_prime_flanking_region		268	10	3.60	309	213	40.80	40.80	Somatic	0.000	329	281	46.07	46.07	Somatic	0.000	1	
667720	10	40,193,817	G	C	ENSG00000208883	3	_3_prime_flanking_region		224	0	0.00	250	0	0.00	0.00	Reference	1.000	212	63	22.91	22.91	Somatic	0.000	2	
667720	10	60,382,308	C	T		0	3		0	764	14	1.80	749	432	36.58	36.58	Somatic	0.000	383	350	40.64	40.64	Somatic	0.000	1
667720	10	65,276,254	A	G	ARID5B	2	intronic		976	1	0.10	905	2	0.22	0.22	Reference	0.472	664	269	28.83	28.83	Somatic	0.000	2	
667720	10	65,512,789	G	A	ARID5B	3	intronic		649	12	1.82	283	243	46.20	46.20	Somatic	0.000	327	300	47.85	47.85	Somatic	0.000	1	
667720	10	73,477,508	C	T	CHST3	3	_3_prime_flanking_region		691	4	0.58	185	153	45.27	45.27	Somatic	0.000	264	282	51.65	51.6				

667720	11	42,702,381	C	T	0	3	3_prime_flanking_region	0	654	11	1.65	492	359	42.19	42.19	Somatic	0.000	458	377	45.15	45.15	Somatic	0.000	1	
667720	11	45,601,521	G	C	CHST1	0	3	3_prime_flanking_region	0	175	3	1.69	163	96	37.07	37.07	Somatic	0.000	200	191	48.85	48.85	Somatic	0.000	1
667720	11	49,649,133	C	G	LOC387770	0	3	intronic	0	1245	46	3.56	587	403	40.71	40.71	Somatic	0.000	582	501	46.26	46.26	Somatic	0.000	1
667720	11	49,858,676	G	C	OR4A16	1	silent	116	0	0.00	36	8	18.18	18.18	Somatic	0.000	65	34	34.34	34.34	Somatic	0.000	0		
667720	11	54,867,516	C	T	OR5J2	1	missense	498	21	4.05	755	506	40.13	40.13	Somatic	0.000	558	470	45.72	45.72	Somatic	0.000	1		
667720	11	55,701,505	C	T	NRXN2	3	intronic	375	6	1.57	523	386	42.46	42.46	Somatic	0.000	335	294	46.74	46.74	Somatic	0.000	1		
667720	11	64,243,912	G	A	FGF19	2	5_prime_flanking_region	375	4	1.06	107	87	44.85	44.85	Somatic	0.000	198	144	42.11	42.11	Somatic	0.000	1		
667720	11	69,242,042	G	A	LRRC32	3	5_prime_flanking_region	383	16	4.01	215	214	49.88	49.88	Somatic	0.000	234	244	51.05	51.05	Somatic	0.000	1		
667720	11	76,108,362	A	T	0	3	3_prime_flanking_region	0	814	15	1.81	577	384	39.96	39.96	Somatic	0.000	522	458	46.73	46.73	Somatic	0.000	1	
667720	11	86,901,769	A	G	CTSC	3	3_prime_flanking_region	1013	1	0.10	907	2	0.22	0.22	Reference	0.459	661	285	30.13	30.13	Somatic	0.000	2		
667720	11	87,659,591	G	T	NOX4	3	5_prime_flanking_region	670	14	2.05	411	282	40.69	40.69	Somatic	0.000	433	349	44.63	44.63	Somatic	0.000	1		
667720	11	91,237,465	A	T	0	3	3_prime_flanking_region	0	976	9	0.91	462	333	41.89	41.89	Somatic	0.000	387	416	51.81	51.81	Somatic	0.000	1	
667720	11	92,382,538	A	G	MTNR1B	3	3_prime_flanking_region	970	20	2.02	595	366	38.09	38.09	Somatic	0.000	586	482	45.13	45.13	Somatic	0.000	1		
667720	11	93,283,522	G	A	0	3	3_prime_flanking_region	0	546	9	1.62	625	291	31.77	31.77	Somatic	0.000	496	410	45.25	45.25	Somatic	0.000	1	
667720	11	96,533,968	T	C	0	3	3_prime_flanking_region	0	891	27	2.94	488	324	39.90	39.90	Somatic	0.000	543	449	45.26	45.26	Somatic	0.000	1	
667720	11	98,901,445	G	A	CNTNS	3	intronic	497	12	2.36	336	217	39.24	39.24	Somatic	0.000	322	246	43.31	43.31	Somatic	0.000	1		
667720	11	99,639,877	C	T	CNTNS	3	intronic	1017	29	2.77	673	526	43.87	43.87	Somatic	0.000	479	434	47.54	47.54	Somatic	0.000	1		
667720	11	103,530,264	C	T	PDGFD	3	intronic	775	1	0.13	655	9	1.36	1.36	Somatic	0.005	419	229	35.34	35.34	Somatic	0.000	0		
667720	11	103,824,943	G	A	0	3	3_prime_flanking_region	0	701	17	2.37	545	417	43.35	43.35	Somatic	0.000	397	412	50.93	50.93	Somatic	0.000	1	
667720	11	103,850,888	T	A	0	3	3_prime_flanking_region	0	819	16	1.92	839	590	41.29	41.29	Somatic	0.000	745	568	43.26	43.26	Somatic	0.000	1	
667720	11	115,761,837	C	T	0	3	3_prime_flanking_region	0	369	20	5.14	219	130	37.25	37.25	Somatic	0.000	275	224	44.89	44.89	Somatic	0.000	1	
667720	11	123,562,114	C	T	OR10D3P	1	missense	732	2	0.27	684	116	14.50	14.50	Somatic	0.000	697	61	8.05	8.05	Somatic	0.000	0		
667720	11	126,539,079	G	A	0	3	3_prime_untranslated_region	0	562	16	2.77	408	250	37.99	37.99	Somatic	0.000	356	288	44.72	44.72	Somatic	0.000	1	
667720	11	131,812,390	G	A	OPCML	1	silent	917	31	3.27	696	448	39.16	39.16	Somatic	0.000	482	428	47.03	47.03	Somatic	0.000	1		
667720	12	536,010	G	A	B4GALNT3	1	silent	261	3	1.14	146	126	46.32	46.32	Somatic	0.000	146	127	46.52	46.52	Somatic	0.000	1		
667720	12	3,051,251	C	A	LOC387825	1	rna	108	0	0.00	71	0	0.00	0.00	Reference	1.000	74	38	33.93	33.93	Somatic	0.000	2		
667720	12	5,651,585	C	A	ANO2	3	intronic	1188	12	1.00	644	291	31.12	31.12	Somatic	0.000	581	282	32.68	32.68	Somatic	0.000	0		
667720	12	10,744,146	G	C	CSDA	3	intronic	756	0	0.00	748	0	0.00	0.00	Reference	1.000	593	228	27.77	27.77	Somatic	0.000	2		
667720	12	15,665,019	A	G	EPS8	2	3_prime_untranslated_region	698	12	1.69	552	383	40.96	40.96	Somatic	0.000	511	450	46.83	46.83	Somatic	0.000	1		
667720	12	15,822,404	T	G	EP58	3	intronic	887	24	2.63	530	428	44.68	44.68	Somatic	0.000	637	494	43.68	43.68	Somatic	0.000	1		
667720	12	18,654,775	G	A	PIK3C2G	3	intronic	761	31	3.91	718	423	37.07	37.07	Somatic	0.000	812	642	44.15	44.15	Somatic	0.000	1		
667720	12	20,645,170	G	A	PDE3A	3	intronic	677	11	1.60	503	412	45.03	45.03	Somatic	0.000	444	455	50.61	50.61	Somatic	0.000	1		
667720	12	23,950,700	C	T	SOX5	2	intronic	470	2	0.42	792	9	1.12	1.12	Somatic	0.162	433	249	36.51	36.51	Somatic	0.000	0		
667720	12	24,425,478	C	T	SOX5	3	intronic	488	6	1.21	257	67	20.68	20.68	Somatic	0.000	259	79	23.37	23.37	Somatic	0.000	0		
667720	12	44,487,832	A	G	ARID2	3	intronic	830	21	2.47	312	227	42.12	42.12	Somatic	0.000	365	338	48.08	48.08	Somatic	0.000	1		
667720	12	51,085,704	A	G	LOC100128683	1	missense	472	0	0.00	332	0	0.00	0.00	Reference	1.000	428	120	21.90	21.90	Somatic	0.000	2		
667720	12	52,967,235	A	G	CBX5	3	5_prime_flanking_region	491	13	2.58	244	175	41.77	41.77	Somatic	0.000	373	347	48.19	48.19	Somatic	0.000	1		
667720	12	56,953,587	G	A	CBX5	0	3	3_prime_flanking_region	0	521	18	3.34	355	282	44.27	44.27	Somatic	0.000	401	400	49.94	49.94	Somatic	0.000	1
667720	12	57,096,739	A	T	0	3	3_prime_flanking_region	0	165	5	2.94	92	62	40.26	40.26	Somatic	0.000	123	115	48.32	48.32	Somatic	0.000	1	
667720	12	61,188,824	G	A	MON2	3	intronic	1210	18	1.47	466	356	43.31	43.31	Somatic	0.000	487	430	46.89	46.89	Somatic	0.000	1		
667720	12	63,330,347	C	T	RASSF3	3	intronic	646	0	0.00	606	0	0.00	0.00	Reference	1.000	468	206	30.56	30.56	Somatic	0.000	2		
667720	12	73,639,268	C	T	ENSG000002101718	3	5_prime_flanking_region	828	19	2.24	728	374	33.94	33.94	Somatic	0.000	414	378	47.73	47.73	Somatic	0.000	1		
667720	12	74,152,502	C	A	GLIPR1	3	5_prime_flanking_region	653	11	1.66	648	384	37.21	37.21	Somatic	0.000	587	505	46.25	46.25	Somatic	0.000	1		
667720	12	77,324,931	C	T	0	2	3_prime_flanking_region	0	527	9	1.68	442	296	40.11	40.11	Somatic	0.000	353	331	48.39	48.39	Somatic	0.000	1	
667720	12	77,489,431	G	C	0	3	3_prime_flanking_region	0	351	5	1.40	204	138	40.35	40.35	Somatic	0.000	257	201	43.89	43.89	Somatic	0.000	1	
667720	12	78,124,154	A	G	SYT1	3	intronic	365	3	0.82	224	125	35.82	35.82	Somatic	0.000	291	249	46.11	46.11	Somatic	0.000	1		
667720	12	80,177,750	A	G	PPFIA2	3	intronic	240	4	1.64	319	271	45.93	45.93	Somatic	0.000	293	275	48.42	48.42	Somatic	0.000	1		
667720	12	86,394,719	C	T	LOC100132846	3	5_prime_flanking_region	1633	36	2.16	887	556	38.53	38.53	Somatic	0.000	810	699	46.32	46.32	Somatic	0.000	1		
667720	12	92,110,485	G	A	P2RX4	3	5_prime_flanking_region	642	29	4.32	250	181	42.00	42.00	Somatic	0.000	296	288	49.32	49.32	Somatic	0.000	1		
667720	12	122,765,750	A	G	ATP6VOA2	3	intronic	758	16	2.07	275	214	43.76	43.76	Somatic	0.000	411	356	46.41	46.41	Somatic	0.000	1		
667720	13	23,537,473	G	A	LOC100130679	3	intronic	469	3	0.64	180	128	41.56	41.56	Somatic	0.000	209	171	45.00	45.00	Somatic	0.000	1		
667720	13	26,424,921	C	T	ENSG00000218572	3	5_prime_flanking_region	197	2	1.01	308	189	38.03	38.03	Somatic	0.000	241	210	46.56	46.56	Somatic	0.000	1		
667720	13	37,968,018	G	A	0	3	3_prime_flanking_region	0	64	0	0.00	38	27	41.54	41.54	Somatic	0.000	57	42	42.42	42.42	Somatic	0.000	1	
667720	13	38,453,077	T	C	STOML3	3	intronic	440	14	3.08</td															

667720	14	28,315,235	A	G	C14orf23	3	intronic	560	7	1.23	184	131	41.59	41.59	Somatic	0.000	237	202	46.01	46.01	Somatic	0.000	1		
667720	14	30,801,555	C	A	ENSG00000199291	3	5_prime_flanking_region	1081	21	1.91	636	396	38.37	38.37	Somatic	0.000	642	481	42.83	42.83	Somatic	0.000	1		
667720	14	33,176,571	C	G	NPAS3	2	intronic	522	0	0.00	744	1	0.13	0.13	Reference	0.588	747	292	28.10	28.10	Somatic	0.000	2		
667720	14	36,312,919	C	G	SLC25A21	3	intronic	635	0	0.00	1245	1	0.08	0.08	Reference	0.662	751	314	29.48	29.48	Somatic	0.000	2		
667720	14	38,967,931	A	C	FBXO33	3	intronic	434	12	2.69	290	213	42.35	42.35	Somatic	0.000	243	245	50.20	50.20	Somatic	0.000	1		
667720	14	39,679,504	G	A		0	3		0	415	16	3.71	353	212	37.52	37.52	Somatic	0.000	286	254	47.04	47.04	Somatic	0.000	1
667720	14	40,503,553	C	T		0	3		0	294	11	3.61	500	273	35.32	35.32	Somatic	0.000	400	342	46.09	46.09	Somatic	0.000	1
667720	14	40,654,475	A	C		0	3		0	630	16	2.48	573	435	43.15	43.15	Somatic	0.000	522	441	45.79	45.79	Somatic	0.000	1
667720	14	51,363,061	C	T	GNG2	2	5_prime_flanking_region	1035	29	2.73	808	639	44.16	44.16	Somatic	0.000	615	600	49.38	49.38	Somatic	0.000	1		
667720	14	53,379,489	G	A		0	2		0	696	18	2.52	843	339	28.68	28.68	Somatic	0.000	470	416	46.95	46.95	Somatic	0.000	0
667720	14	53,517,256	A	T	BMP4	3	5_prime_flanking_region	499	18	3.48	424	269	38.82	38.82	Somatic	0.000	412	379	47.91	47.91	Somatic	0.000	1		
667720	14	53,737,250	A	T	ENSG00000209817	3	5_prime_flanking_region	1042	24	2.25	526	309	37.01	37.01	Somatic	0.000	527	434	45.16	45.16	Somatic	0.000	1		
667720	14	58,733,971	C	T	DAAM1	3	intronic	707	28	3.81	288	152	34.55	34.55	Somatic	0.000	319	244	43.34	43.34	Somatic	0.000	1		
667720	14	62,567,512	T	A	KCNH5	3	intronic	700	17	2.37	391	273	41.11	41.11	Somatic	0.000	366	295	44.63	44.63	Somatic	0.000	1		
667720	14	64,606,563	C	T	MAX	2	intronic	267	13	4.64	179	107	37.41	37.41	Somatic	0.000	164	139	45.87	45.87	Somatic	0.000	1		
667720	14	64,921,327	C	G	FUT8	3	5_prime_flanking_region	771	10	1.28	243	190	43.88	43.88	Somatic	0.000	300	274	47.74	47.74	Somatic	0.000	1		
667720	14	65,487,879	T	A	LOC279850	3	3_prime_flanking_region	871	20	2.24	360	208	36.62	36.62	Somatic	0.000	372	370	49.87	49.87	Somatic	0.000	1		
667720	14	71,721,893	C	G	RGS6	3	intronic	1448	21	1.43	486	399	45.08	45.08	Somatic	0.000	553	544	49.59	49.59	Somatic	0.000	1		
667720	14	74,689,784	G	T	TMED10	3	intronic	358	5	1.38	147	88	37.45	37.45	Somatic	0.000	167	141	45.78	45.78	Somatic	0.000	1		
667720	14	81,626,242	C	T		0	3		0	544	11	1.98	358	275	43.44	43.44	Somatic	0.000	381	316	45.34	45.34	Somatic	0.000	1
667720	14	84,334,345	G	A		0	3		0	451	7	1.53	224	182	44.83	44.83	Somatic	0.000	254	211	45.38	45.38	Somatic	0.000	1
667720	14	90,058,710	C	T	TTC7B	3	3_prime_flanking_region	248	6	2.36	141	97	40.76	40.76	Somatic	0.000	164	158	49.07	49.07	Somatic	0.000	1		
667720	14	92,315,005	C	T	GOLGAS	3	5_prime_flanking_region	545	15	2.68	327	193	37.12	37.12	Somatic	0.000	294	282	48.96	48.96	Somatic	0.000	1		
667720	14	94,466,881	G	C	LOC730118	3	3_prime_flanking_region	749	17	2.22	368	309	45.64	45.64	Somatic	0.000	398	324	44.88	44.88	Somatic	0.000	1		
667720	14	104,041,153	T	C		0	3		0	182	4	2.15	191	106	35.69	35.69	Somatic	0.000	214	174	44.85	44.85	Somatic	0.000	1
667720	15	18,427,917	C	T	LOC646057	3	3_prime_flanking_region	499	32	6.03	290	224	43.58	43.58	Somatic	0.000	248	226	47.68	47.68	Somatic	0.000	1		
667720	15	22,474,636	G	A	C15orf2	1	silent	347	15	4.14	251	195	43.72	43.72	Somatic	0.000	213	180	45.80	45.80	Somatic	0.000	1		
667720	15	22,994,289	G	A	SNORD115-16	3	5_prime_flanking_region	106	4	3.64	61	48	44.04	44.04	Somatic	0.000	101	67	39.88	39.88	Somatic	0.000	0		
667720	15	49,324,070	A	T	CYP19A1	3	intronic	1393	87	5.88	506	437	46.34	46.34	Somatic	0.000	674	596	46.93	46.93	Somatic	0.000	1		
667720	15	49,344,416	A	G	CYP19A1	3	intronic	1943	2	0.10	2263	6	0.26	0.26	Reference	0.201	1368	603	30.59	30.59	Somatic	0.000	2		
667720	15	50,512,491	A	G	MYO5A	3	intronic	1293	32	2.42	497	351	41.39	41.39	Somatic	0.000	578	527	47.69	47.69	Somatic	0.000	1		
667720	15	55,530,632	T	G	CGNL1	3	intronic	676	9	1.31	197	144	42.23	42.23	Somatic	0.000	263	223	45.88	45.88	Somatic	0.000	1		
667720	15	66,816,156	T	C	CORO2B	3	3_prime_flanking_region	1143	23	1.97	167	144	46.30	46.30	Somatic	0.000	260	261	50.10	50.10	Somatic	0.000	1		
667720	15	69,212,373	T	C	THSD4	3	intronic	798	20	2.44	522	291	35.79	35.79	Somatic	0.000	436	355	44.88	44.88	Somatic	0.000	1		
667720	15	71,409,783	C	T	HNC4	3	intronic	491	1	0.20	506	2	0.39	0.39	Reference	0.513	403	189	31.93	31.93	Somatic	0.000	2		
667720	15	80,237,597	C	G	EFTUD1	3	intronic	349	0	0.00	526	0	0.00	0.00	Reference	1.000	441	176	28.53	28.53	Somatic	0.000	2		
667720	15	85,910,193	A	T	TMEM83	3	5_prime_flanking_region	476	17	3.45	514	351	40.58	40.58	Somatic	0.000	471	350	42.63	42.63	Somatic	0.000	1		
667720	15	89,544,089	T	C	SV28	3	intronic	704	13	1.81	524	382	42.16	42.16	Somatic	0.000	523	424	44.77	44.77	Somatic	0.000	1		
667720	15	94,056,510	A	T	ENSG00000222076	3	5_prime_flanking_region	713	14	1.93	533	343	39.16	39.16	Somatic	0.000	506	372	42.37	42.37	Somatic	0.000	1		
667720	15	96,108,097	C	T		0	3		0	612	12	1.92	353	185	34.39	34.39	Somatic	0.000	272	235	46.35	46.35	Somatic	0.000	1
667720	15	96,141,076	C	T		0	3		0	910	16	1.73	669	486	42.08	42.08	Somatic	0.000	638	577	47.49	47.49	Somatic	0.000	1
667720	15	96,294,368	G	A	ARRDC4	3	5_prime_flanking_region	758	0	0.00	452	0	0.00	0.00	Reference	1.000	461	187	28.86	28.86	Somatic	0.000	2		
667720	15	98,619,240	G	A	ADAMTS17	1	missense	350	13	3.58	223	218	49.43	49.43	Somatic	0.000	275	293	51.58	51.58	Somatic	0.000	1		
667720	15	99,794,195	G	A	PCSK6	3	intronic	322	12	3.59	315	199	38.72	38.72	Somatic	0.000	299	243	44.83	44.83	Somatic	0.000	1		
667720	16	2,746,397	C	T	SRRM2	1	missense	150	2	1.32	80	68	45.95	45.95	Somatic	0.000	100	86	46.24	46.24	Somatic	0.000	1		
667720	16	3,206,458	G	C	OR1F2P	1	rna	794	16	1.98	369	206	35.83	35.83	Somatic	0.000	331	329	49.85	49.85	Somatic	0.000	1		
667720	16	7,006,387	G	C	A2BP1	3	intronic	740	11	1.46	475	262	35.55	35.55	Somatic	0.000	488	368	42.99	42.99	Somatic	0.000	1		
667720	16	12,448,641	G	A	SNX29	3	intronic	672	14	2.04	268	201	42.86	42.86	Somatic	0.000	364	363	49.93	49.93	Somatic	0.000	1		
667720	16	20,106,854	T	C	LOC100131046	3	3_prime_flanking_region	545	1	0.18	591	2	0.34	0.34	Reference	0.531	553	106	16.08	16.08	Somatic	0.000	0		
667720	16	21,192,526	T	C	CRYM	3	intronic	677	14	2.03	312	210	40.23	40.23	Somatic	0.000	334	278	45.42	45.42	Somatic	0.000	1		
667720	16	32,520,460	G	T	LOC651033	3	5_prime_flanking_region	450	3	0.66	247	77	23.77	23.77	Somatic	0.000	295	131	30.75	30.75	Somatic	0.000	0		
667720	16	33,870,177	G	A	ENSG000002200002	1	rna	33	0	0.00	28	2	6.67	6.67	Reference	0.223	55	8	8.33	8.33	Somatic	0.105	0		
667720	16	46,627,309	G	A	ABCC12	3	3_prime_flanking_region	900	15	1.64	417	273	39.57	39.57	Somatic	0.000	514	429	45.49	45.49	Somatic	0.000	1		
667720	16	49,256,341	G	C	NOD2	2	5_prime_flanking_region	424	0	0.00	387	0	0.00	0.00	Reference	1.000									

667720	17	48,339,874	C	A	0	3	0	422	10	2.31	235	131	35.79	35.79	Somatic	0.000	283	219	43.63	43.63	Somatic	0.000	1
667720	17	50,406,443	G	A	STXBP4	3	intronic	785	11	1.38	238	150	38.66	38.66	Somatic	0.000	298	252	45.82	45.82	Somatic	0.000	1
667720	17	51,678,164	G	C	ANKFN1	2	intronic	492	43	8.04	370	302	44.94	44.94	Somatic	0.000	399	268	46.66	46.66	Somatic	0.000	1
667720	17	59,231,946	G	C	DDX42	3	intronic	486	0	0.00	199	0	0.00	0.00	Reference	1.000	299	108	28.72	28.72	Somatic	0.000	2
667720	17	59,758,997	A	G	PECAM1	2	intronic	783	4	0.51	212	193	47.65	47.65	Somatic	0.000	324	299	47.99	47.99	Somatic	0.000	1
667720	17	66,560,639	C	T	ENSG00000211252	3	5_prime_flanking_region	995	18	1.78	651	403	38.24	38.24	Somatic	0.000	565	423	42.81	42.81	Somatic	0.000	1
667720	17	68,856,079	G	C	SDK2	3	intronic	357	3	0.83	140	117	45.53	45.53	Somatic	0.000	176	172	49.43	49.43	Somatic	0.000	1
667720	17	69,497,694	G	A	0	3	0	127	3	2.31	74	60	44.78	44.78	Somatic	0.000	123	115	48.32	48.32	Somatic	0.000	1
667720	17	76,818,226	C	T	C17orf56	3	intronic	357	3	0.83	130	85	39.53	39.53	Somatic	0.000	159	144	47.52	47.52	Somatic	0.000	1
667720	18	3,885,183	C	A	DLGAP1	3	5_prime_flanking_region	1267	21	1.63	641	450	41.25	41.25	Somatic	0.000	526	438	45.44	45.44	Somatic	0.000	1
667720	18	6,365,702	T	C	L3MBTL4	3	intronic	364	9	2.41	516	362	41.23	41.23	Somatic	0.000	427	420	49.59	49.59	Somatic	0.000	1
667720	18	8,745,342	C	T	KIAA0802	2	intronic	360	10	2.70	400	327	44.98	44.98	Somatic	0.000	372	307	45.21	45.21	Somatic	0.000	1
667720	18	16,963,725	C	T	ROCK1	3	5_prime_flanking_region	828	25	2.93	354	251	41.49	41.49	Somatic	0.000	320	249	43.76	43.76	Somatic	0.000	1
667720	18	18,178,593	C	T	0	3	0	800	29	3.50	864	654	43.08	43.08	Somatic	0.000	770	691	47.30	47.30	Somatic	0.000	1
667720	18	23,150,623	A	G	FJL45994	3	3_prime_flanking_region	390	0	0.00	325	0	0.00	0.00	Reference	1.000	399	176	30.61	30.61	Somatic	0.000	2
667720	18	24,610,744	G	T	0	3	0	535	19	3.43	316	268	45.89	45.89	Somatic	0.000	351	332	48.61	48.61	Somatic	0.000	1
667720	18	24,854,564	C	T	0	3	0	531	7	1.30	467	299	39.03	39.03	Somatic	0.000	429	384	47.23	47.23	Somatic	0.000	1
667720	18	26,096,158	G	A	0	3	0	592	12	1.99	219	141	39.17	39.17	Somatic	0.000	289	233	44.64	44.64	Somatic	0.000	1
667720	18	29,280,107	C	T	C18orf34	2	5_prime_flanking_region	225	2	0.88	158	72	31.30	31.30	Somatic	0.000	166	109	39.64	39.64	Somatic	0.000	0
667720	18	29,819,838	G	A	NOL4	2	intronic	446	13	2.83	430	324	42.97	42.97	Somatic	0.000	496	432	46.55	46.55	Somatic	0.000	1
667720	18	32,323,917	C	T	FHD03	3	intronic	765	16	2.05	462	311	40.23	40.23	Somatic	0.000	534	439	45.12	45.12	Somatic	0.000	1
667720	18	33,138,757	A	G	BRUNOL4	3	intronic	356	2	0.56	184	128	41.03	41.03	Somatic	0.000	237	220	48.14	48.14	Somatic	0.000	1
667720	18	36,232,075	T	C	0	3	0	570	12	2.06	455	302	39.89	39.89	Somatic	0.000	512	440	46.22	46.22	Somatic	0.000	1
667720	18	49,664,095	G	A	SEC11C	3	intronic	642	0	0.00	1144	0	0.00	0.00	Reference	1.000	363	179	33.03	33.03	Somatic	0.000	2
667720	18	50,563,399	C	T	0	2	0	422	0	0.00	613	0	0.00	0.00	Reference	1.000	742	320	30.13	30.13	Somatic	0.000	2
667720	18	54,972,821	G	A	ENSG00000210475	2	3_prime_flanking_region	220	5	2.22	142	114	44.53	44.53	Somatic	0.000	124	95	43.38	43.38	Somatic	0.000	1
667720	18	58,260,839	C	A	0	3	0	765	25	3.16	409	270	39.76	39.76	Somatic	0.000	356	335	48.48	48.48	Somatic	0.000	1
667720	18	62,291,943	C	T	CDH19	3	3_prime_flanking_region	494	7	1.40	398	191	32.43	32.43	Somatic	0.000	318	254	44.41	44.41	Somatic	0.000	1
667720	18	63,404,373	C	A	CCDC102B	3	intronic	249	0	0.00	343	0	0.00	0.00	Reference	1.000	281	155	35.55	35.55	Somatic	0.000	2
667720	18	64,809,937	G	T	0	3	0	577	8	1.37	140	127	47.57	47.57	Somatic	0.000	240	233	49.26	49.26	Somatic	0.000	1
667720	18	67,128,346	C	T	0	3	0	512	14	2.66	415	260	38.52	38.52	Somatic	0.000	405	330	44.90	44.90	Somatic	0.000	1
667720	18	67,648,190	G	A	0	3	0	320	6	1.84	160	102	38.93	38.93	Somatic	0.000	195	158	44.76	44.76	Somatic	0.000	1
667720	18	69,386,050	C	T	0	3	0	421	12	2.77	418	352	45.71	45.71	Somatic	0.000	366	365	49.93	49.93	Somatic	0.000	1
667720	18	71,452,164	T	C	0	3	0	1219	20	1.61	578	427	42.49	42.49	Somatic	0.000	589	514	46.60	46.60	Somatic	0.000	1
667720	18	72,070,987	T	A	0	2	0	446	8	1.76	448	305	40.50	40.50	Somatic	0.000	412	364	46.91	46.91	Somatic	0.000	1
667720	18	73,092,005	C	T	GALR1	1	silent	95	4	4.04	109	28	20.44	20.44	Somatic	0.000	101	33	24.63	24.63	Somatic	0.000	0
667720	19	12,710,408	C	G	ASN1	1	missense	681	4	0.58	250	168	40.19	40.19	Somatic	0.000	270	239	46.95	46.95	Somatic	0.000	1
667720	19	39,501,073	G	T	KIAA0355	3	intronic	517	0	0.00	1005	3	0.30	0.30	Reference	0.288	594	283	32.27	32.27	Somatic	0.000	2
667720	19	44,776,700	C	T	LGALS13	2	5_prime_flanking_region	789	21	2.59	474	389	45.08	45.08	Somatic	0.000	415	394	48.70	48.70	Somatic	0.000	1
667720	19	56,972,514	G	A	FPR3	3	5_prime_flanking_region	885	14	1.56	436	345	44.17	44.17	Somatic	0.000	432	374	46.40	46.40	Somatic	0.000	1
667720	19	58,827,301	C	T	DRPX	3	intronic	833	9	1.07	282	226	44.49	44.49	Somatic	0.000	294	261	47.03	47.03	Somatic	0.000	1
667720	19	62,127,150	G	A	ENSG00000210698	3	3_prime_flanking_region	1226	24	1.92	543	424	43.85	43.85	Somatic	0.000	541	491	47.58	47.58	Somatic	0.000	1
667720	20	343,154	T	A	RBCK1	3	intronic	553	7	1.25	127	93	42.27	42.27	Somatic	0.000	207	150	42.02	42.02	Somatic	0.000	1
667720	20	7,075,488	G	A	0	2	0	352	6	1.68	291	209	41.80	41.80	Somatic	0.000	320	280	46.67	46.67	Somatic	0.000	1
667720	20	10,697,224	A	G	0	3	0	1486	2	0.13	554	0	0.00	0.00	Reference	0.096	1187	511	30.09	30.09	Somatic	0.000	2
667720	20	17,933,059	C	T	SNXS	3	5_prime_flanking_region	484	1	0.21	554	0	0.00	0.00	Reference	0.467	360	159	30.64	30.64	Somatic	0.000	2
667720	20	21,381,472	T	C	ENSG00000223128	3	5_prime_flanking_region	536	7	1.29	307	242	44.08	44.08	Somatic	0.000	344	342	49.85	49.85	Somatic	0.000	1
667720	20	22,697,257	C	T	ENSG00000215553	3	5_prime_flanking_region	840	10	1.18	420	305	42.07	42.07	Somatic	0.000	441	397	47.37	47.37	Somatic	0.000	1
667720	20	22,730,006	C	T	ENSG0000199583	3	5_prime_flanking_region	683	13	1.87	258	156	37.68	37.68	Somatic	0.000	294	290	49.66	49.66	Somatic	0.000	1
667720	20	24,991,504	A	C	ACSS1	2	5_prime_flanking_region	514	30	5.51	241	163	40.35	40.35	Somatic	0.000	266	255	48.94	48.94	Somatic	0.000	1
667720	20	37,291,685	G	A	ENSG00000211534	3	5_prime_flanking_region	597	23	3.71	275	212	43.53	43.53	Somatic	0.000	333	252	43.08	43.08	Somatic	0.000	1
667720	20	44,085,952	G	C	SLC12A5	3	5_prime_flanking_region	631	1	0.16	434	1	0.23	0.23	Reference	0.649	415	144	25.76	25.76	Somatic	0.000	2
667720	20	53,171,952	A	T	ENSG0000185834	3	5_prime_flanking_region	223	5	2.19	70	50	41.67	41.67	Somatic	0.000	150	138	47.92	47.92	Somatic	0.000	1
667720	20	60,817,698	G	C	NTSR1	3	intronic	184	0	0.00	111	0	0.00	0.00	Reference	1.000	160	19	10.61	10.61	Somatic	0.000	0
667720	20	61,050,400	C	G</																			

667720	X	87,667,932	C	T	GPR174	3	3_prime_flanking_region	850	17	1.96	974	618	38.82	38.82	Somatic	0.000	847	683	44.64	44.64	Somatic	0.000	1	
667720	X	90,472,559	G	A	DIAPH2	3	intronic	0	419	12	2.78	169	116	40.70	40.70	Somatic	0.000	240	237	49.69	49.69	Somatic	0.000	1
667720	X	96,221,249	G	A	DIAPH2	3	intronic	0	1095	26	2.32	887	459	34.10	34.10	Somatic	0.000	754	610	44.72	44.72	Somatic	0.000	1
667720	X	98,446,051	A	G	ENSG00000216517	3	5_prime_flanking_region	0	570	0	0.00	525	0	0.00	0.00	Reference	1.000	458	216	32.05	32.05	Somatic	0.000	2
667720	X	99,071,555	T	C	ENSG00000216517	3	5_prime_flanking_region	0	909	17	1.84	879	51	5.48	5.48	Somatic	0.000	1033	42	3.91	3.91	Somatic	0.004	0
667720	X	99,625,556	A	G	BTK	2	5_prime_flanking_region	0	659	10	1.49	416	290	41.08	41.08	Somatic	0.000	363	310	46.06	46.06	Somatic	0.000	1
667720	X	100,559,478	C	T	MORF4L2	3	5_prime_flanking_region	0	594	18	2.94	349	264	43.07	43.07	Somatic	0.000	364	312	46.15	46.15	Somatic	0.000	1
667720	X	102,848,430	G	A	IL1RAPL2	0	3	0	815	27	3.21	1201	833	40.95	40.95	Somatic	0.000	976	764	43.91	43.91	Somatic	0.000	1
667720	X	103,501,700	G	C	ATG4A	0	2	0	490	0	0.00	657	0	0.00	0.00	Reference	1.000	625	146	18.94	18.94	Somatic	0.000	0
667720	X	103,552,591	C	G	ASSP5	3	intronic	0	895	17	1.86	403	255	38.75	38.75	Somatic	0.000	477	436	47.75	47.75	Somatic	0.000	1
667720	X	104,516,933	C	A	FAM127B	3	5_prime_flanking_region	0	428	9	2.06	332	178	34.90	34.90	Somatic	0.000	326	257	44.08	44.08	Somatic	0.000	1
667720	X	107,270,005	A	C	ATG4A	3	intronic	0	1009	13	1.27	445	315	41.45	41.45	Somatic	0.000	412	362	46.77	46.77	Somatic	0.000	1
667720	X	109,068,732	A	G	ZCCHC16	3	intronic	0	1086	31	2.78	336	257	43.34	43.34	Somatic	0.000	360	266	42.49	42.49	Somatic	0.000	1
667720	X	111,049,748	C	G	ENSG00000217750	3	3_prime_flanking_region	0	472	13	2.68	72	74	50.68	50.68	Somatic	0.000	208	147	41.41	41.41	Somatic	0.000	0
667720	X	113,718,489	T	C	HTR2C	3	5_prime_flanking_region	0	334	4	1.18	294	228	43.68	43.68	Somatic	0.000	354	315	47.09	47.09	Somatic	0.000	1
667720	X	114,187,084	G	A	IL1R3A2	3	5_prime_flanking_region	0	871	20	2.24	454	364	44.50	44.50	Somatic	0.000	480	363	43.06	43.06	Somatic	0.000	1
667720	X	114,791,543	A	G	ASSP5	3	5_prime_flanking_region	0	688	10	1.43	313	237	43.09	43.09	Somatic	0.000	402	389	49.18	49.18	Somatic	0.000	1
667720	X	119,745,449	G	A	ENSG00000181511	2	5_prime_flanking_region	0	802	16	1.96	463	269	36.75	36.75	Somatic	0.000	494	398	44.62	44.62	Somatic	0.000	1
667720	X	122,689,801	C	T	THOC2	3	intronic	0	480	7	1.44	223	212	48.74	48.74	Somatic	0.000	330	264	44.44	44.44	Somatic	0.000	1
667720	X	122,769,928	C	T	ENSG00000199705	3	3_prime_flanking_region	0	1142	12	1.04	420	296	41.34	41.34	Somatic	0.000	496	445	47.29	47.29	Somatic	0.000	1
667720	X	124,800,010	G	A	ENSG00000216885	0	3	0	534	16	2.91	539	379	41.29	41.29	Somatic	0.000	536	437	44.91	44.91	Somatic	0.000	1
667720	X	128,322,966	C	T	UBE2NL	2	5_prime_flanking_region	0	566	0	0.00	1204	2	0.17	0.17	Reference	0.463	798	377	32.09	32.09	Somatic	0.000	2
667720	X	129,092,473	G	C	AIFM1	3	intronic	0	618	9	1.44	398	248	38.39	38.39	Somatic	0.000	413	319	43.58	43.58	Somatic	0.000	1
667720	X	134,038,393	C	T	LOC100128416	3	5_prime_flanking_region	0	706	1	0.14	739	1	0.14	0.14	Reference	0.761	458	203	30.71	30.71	Somatic	0.000	2
667720	X	135,725,080	G	A	LOC100128416	3	intronic	0	1119	15	1.32	695	424	37.89	37.89	Somatic	0.000	691	580	45.63	45.63	Somatic	0.000	1
667720	X	137,026,375	C	T	SOX3	0	3	0	563	18	3.10	769	441	36.45	36.45	Somatic	0.000	836	534	38.98	38.98	Somatic	0.000	1
667720	X	137,479,258	T	C	PDK1K1	0	3	0	722	20	2.70	459	266	36.69	36.69	Somatic	0.000	509	416	44.97	44.97	Somatic	0.000	1
667720	X	139,379,625	C	T	IGSF21	2	3_prime_flanking_region	0	870	12	1.36	206	200	49.26	49.26	Somatic	0.000	291	318	52.22	52.22	Somatic	0.000	1
667720	X	142,760,954	G	A	ENSG00000202051	3	3_prime_flanking_region	0	391	0	0.00	757	3	0.39	0.39	Reference	0.287	509	204	28.61	28.61	Somatic	0.000	2
610184	1	4,284,720	G	A	ENSG00000202051	0	2	0	807	3	0.37	396	114	22.35	16.99	Somatic	0.000	584	214	26.82	26.82	Somatic	0.000	0
610184	1	8,617,429	C	T	TMEM39B	2	3_prime_flanking_region	0	1103	1	0.09	700	7	0.99	0.99	Somatic	0.007	472	181	27.72	27.72	Somatic	0.000	2
610184	1	26,321,048	C	T	ASSP5	1	missense	0	397	1	0.25	198	11	5.26	8.18	Somatic	0.000	444	56	11.2	17.47	Somatic	0.000	0
610184	1	29,869,756	C	T	ENSG00000221126	3	3_prime_flanking_region	0	1228	3	0.24	789	15	1.87	3.22	Somatic	0.000	812	216	21.01	36.56	Somatic	0.000	2
610184	1	32,339,975	C	G	ZNF697	3	intronic	0	996	10	0.99	597	123	17.08	17.08	Somatic	0.000	1498	326	17.87	17.87	Somatic	0.000	0
610184	1	43,116,367	T	C	LOC343515	2	5_prime_flanking_region	0	467	6	1.27	285	121	29.8	29.8	Somatic	0.000	475	179	27.37	27.37	Somatic	0.000	0
610184	1	43,128,941	A	T	LOC343515	3	5_prime_flanking_region	0	389	4	1.02	218	87	28.52	28.52	Somatic	0.000	526	229	30.33	30.33	Somatic	0.000	0
610184	1	69,183,438	A	G	ENSG00000205179	0	3	0	687	10	1.43	379	274	41.96	41.96	Somatic	0.000	324	282	46.53	46.53	Somatic	0.000	1
610184	1	71,776,139	A	C	NEGR1	3	intronic	0	407	4	0.97	276	210	43.21	43.21	Somatic	0.000	278	249	47.25	47.25	Somatic	0.000	1
610184	1	74,088,809	C	T	C1orf173	3	5_prime_flanking_region	0	807	9	1.1	509	368	41.96	41.96	Somatic	0.000	332	236	41.55	41.55	Somatic	0.000	1
610184	1	79,913,330	G	T	NUF2	3	intronic	0	559	26	4.44	141	89	38.7	38.7	Somatic	0.000	315	250	44.25	44.25	Somatic	0.000	1
610184	1	79,903,260	T	A	ENSG00000205179	0	3	0	235	7	2.89	193	101	34.35	34.35	Somatic	0.000	108	85	44.04	44.04	Somatic	0.000	0
610184	1	89,804,994	C	G	LRRC8B	3	intronic	0	663	12	1.78	501	792	61.25	45.94	Somatic	0.000	399	668	46.96	46.96	Somatic	0.000	1
610184	1	106,433,605	C	T	LOC126987	3	5_prime_flanking_region	0	345	5	1.43	219	154	41.29	41.29	Somatic	0.000	281	257	47.77	47.77	Somatic	0.000	1
610184	1	119,987,384	C	G	ZNF697	3	intronic	0	1742	4	0.23	264	3	1.12	1.12	Somatic	0.054	507	249	32.94	32.94	Somatic	0.000	2
610184	1	154,297,491	C	T	SSR2	2	5_prime_flanking_region	0	511	8	1.54	33	37	52.86	52.86	Somatic	0.000	232	161	40.97	40.97	Somatic	0.000	0
610184	1	154,668,465	A	G	C1orf61	2	5_prime_flanking_region	0	393	9	2.24	26	50	50	50	Somatic	0.000	282	252	47.19	47.19	Somatic	0.000	1
610184	1	161,868,102	T	C	ENSG00000205179	0	3	0	123	0	0	89	3	3.26	3.26	Somatic	0.077	53	20	27.4	27.4	Somatic	0.000	2
610184	1	183,801,714	T	C	ENSG00000205179	0	3	0	808	1	0.12	547	11	1.97	1.97	Somatic	0.000	291	137	32.01	32.01	Somatic	0.000	2
610184	1	193,643,968	A	G	ENSG00000205179	0	3	0	118	1	0.84	110	85	43.59	43.59	Somatic	0.000	35	22	38.6	38.6	Somatic	0.000	1
610184	1	215,183,885	G	T	ESRRG	2	intronic	0	1065	15	1.39	647	484	42.79	42.79	Somatic	0.000	262	186	41.52	41.52	Somatic	0.000	1
610184	2	15,576,765	A	C	GPATCH2	3	intronic	0	299	5	1.64	123	104	45.81	45.81	Somatic	0.000	277	227	45.04	45.04	Somatic	0.000	1
610184	2	22,364,357	C	G	ENSG00000218972	3	5_prime_flanking_region	0	292	1	0.34	596	195	24.65	18.86	Somatic	0.000	199	70	26.02	20.88	Somatic	0.000	0
610184	2	22,916,892	C	T																				

610184	2	209,199,970	G	C	0	3	0	768	1	0.13	1203	13	1.07	1.07	Somatic	0.010	488	243	33.24	33.24	Somatic	0.000	2	
610184	2	212,617,374	C	T	ERRB4	2	intronic	271	2	0.73	225	147	39.52	39.52	Somatic	0.000	135	110	44.9	44.9	Somatic	0.000	1	
610184	2	214,820,163	G	A	SPAG16	3	intronic	432	3	0.69	390	261	40.09	40.09	Somatic	0.000	249	169	40.43	40.43	Somatic	0.000	1	
610184	2	221,377,126	A	G	0	3	0	1116	8	0.71	514	400	43.76	43.76	Somatic	0.000	442	368	45.43	45.43	Somatic	0.000	1	
610184	2	223,888,487	G	T	ENSG00000208065	3	3_prime_flanking_region	487	3	0.61	375	265	41.41	41.41	Somatic	0.000	269	240	47.15	47.15	Somatic	0.000	1	
610184	2	228,557,890	C	T	SPHKAP	2	intronic	725	3	0.41	412	278	40.29	40.29	Somatic	0.000	290	274	48.58	48.58	Somatic	0.000	1	
610184	2	232,692,365	G	T	DIS3L2	3	intronic	1591	17	1.06	1020	812	44.32	44.32	Somatic	0.000	405	357	46.85	46.85	Somatic	0.000	1	
610184	2	236,198,025	G	A	AGAP1	3	intronic	463	4	0.86	130	107	45.15	45.15	Somatic	0.000	211	164	43.73	43.73	Somatic	0.000	1	
610184	2	238,022,968	A	G	COL6A3	3	5_prime_flanking_region	782	15	1.88	146	92	38.66	38.66	Somatic	0.000	387	307	44.24	44.24	Somatic	0.000	1	
610184	3	6,403,414	C	T	CADPS	0	3	0	591	5	0.84	651	460	41.4	41.4	Somatic	0.000	227	198	46.59	46.59	Somatic	0.000	1
610184	3	17,532,384	A	T	TBC1D5	3	intronic	778	3	0.38	506	329	39.4	39.4	Somatic	0.000	315	239	43.14	43.14	Somatic	0.000	1	
610184	3	37,485,086	C	T	ITGA9	3	intronic	1102	9	0.81	279	227	44.86	44.86	Somatic	0.000	358	285	44.32	44.32	Somatic	0.000	1	
610184	3	43,540,902	A	G	ANO10	3	intronic	1353	23	1.67	761	590	43.67	43.67	Somatic	0.000	317	253	44.39	44.39	Somatic	0.000	1	
610184	3	55,294,971	T	C	0	3	0	782	11	1.39	772	523	40.39	40.39	Somatic	0.000	322	251	43.8	43.8	Somatic	0.000	1	
610184	3	62,459,836	C	A	CADPS	3	intronic	825	14	1.67	557	440	44.13	44.13	Somatic	0.000	379	266	41.24	41.24	Somatic	0.000	1	
610184	3	62,832,935	T	A	CADPS	3	intronic	457	4	0.87	116	97	45.54	45.54	Somatic	0.000	357	255	41.67	41.67	Somatic	0.000	1	
610184	3	73,732,233	G	C	PDZRN3	3	intronic	701	6	0.85	331	262	44.18	44.18	Somatic	0.000	255	207	44.81	44.81	Somatic	0.000	1	
610184	3	73,837,196	G	A	0	3	0	1256	13	1.02	802	669	45.48	45.48	Somatic	0.000	277	242	46.63	46.63	Somatic	0.000	1	
610184	3	74,032,000	G	A	ENSG00000179799	3	intronic	794	7	0.87	522	447	46.13	46.13	Somatic	0.000	402	314	43.85	43.85	Somatic	0.000	1	
610184	3	74,552,748	T	C	CNTN3	3	intronic	545	3	0.55	362	286	44.14	44.14	Somatic	0.000	261	237	47.59	47.59	Somatic	0.000	1	
610184	3	75,488,149	A	C	ENSG00000179799	3	intronic	114	0	0	99	0	0	0	Reference	1.000	119	22	15.6	15.6	Somatic	0.000	0	
610184	3	80,206,646	A	C	0	3	0	484	10	2.02	246	166	40.29	40.29	Somatic	0.000	251	225	47.27	47.27	Somatic	0.000	1	
610184	3	83,960,004	C	T	0	3	0	560	3	0.53	362	302	45.48	45.48	Somatic	0.000	247	215	46.54	46.54	Somatic	0.000	1	
610184	3	85,183,097	C	A	CADM2	2	intronic	612	0	0	539	16	2.88	2.88	Somatic	0.000	333	162	32.73	32.73	Somatic	0.000	2	
610184	3	97,654,760	T	C	ENSG00000216136	3	5_prime_flanking_region	715	7	0.97	413	296	41.75	41.75	Somatic	0.000	336	247	42.37	42.37	Somatic	0.000	1	
610184	3	98,888,730	A	G	EPHA6	3	intronic	542	9	1.63	421	291	40.87	40.87	Somatic	0.000	329	248	42.98	42.98	Somatic	0.000	1	
610184	3	105,796,899	G	A	0	3	0	508	13	2.5	332	245	42.46	42.46	Somatic	0.000	121	79	39.5	39.5	Somatic	0.000	1	
610184	3	109,780,331	C	A	KIAA1524	3	intronic	787	5	0.63	363	219	37.63	37.63	Somatic	0.000	232	202	46.54	46.54	Somatic	0.000	1	
610184	3	111,972,151	A	G	ENSG00000201426	3	3_prime_flanking_region	780	8	1.02	400	323	44.67	44.67	Somatic	0.000	341	265	43.73	43.73	Somatic	0.000	1	
610184	3	112,428,297	G	A	0	3	0	569	5	0.87	254	174	40.65	40.65	Somatic	0.000	303	231	43.26	43.26	Somatic	0.000	1	
610184	3	117,480,205	A	T	LSAMP	3	intronic	652	6	0.91	401	310	43.6	43.6	Somatic	0.000	294	239	44.84	44.84	Somatic	0.000	1	
610184	3	145,187,161	A	G	C3orf58	1	silent	641	9	1.38	305	251	45.14	45.14	Somatic	0.000	260	238	47.79	47.79	Somatic	0.000	1	
610184	3	146,688,932	G	T	0	3	0	437	8	1.8	223	163	42.23	42.23	Somatic	0.000	191	159	45.43	45.43	Somatic	0.000	1	
610184	3	148,322,059	G	A	0	3	0	1170	16	1.35	609	494	44.79	44.79	Somatic	0.000	306	243	44.26	44.26	Somatic	0.000	1	
610184	3	148,979,248	C	T	0	3	0	301	0	0	382	4	1.04	1.04	Somatic	0.099	93	46	33.09	33.09	Somatic	0.000	2	
610184	3	160,494,910	T	A	SCHIP1	3	intronic	904	15	1.63	681	549	44.63	44.63	Somatic	0.000	254	203	44.42	44.42	Somatic	0.000	1	
610184	3	163,368,762	A	C	0	3	0	306	5	1.61	389	273	41.24	41.24	Somatic	0.000	211	178	45.76	45.76	Somatic	0.000	1	
610184	3	177,794,514	A	T	0	3	0	590	0	0	690	7	1	1	Somatic	0.013	424	220	34.16	34.16	Somatic	0.000	2	
610184	3	179,155,079	G	T	0	3	0	556	3	0.54	346	242	41.16	41.16	Somatic	0.000	218	172	44.1	44.1	Somatic	0.000	1	
610184	3	198,755,950	T	A	BHD1	3	intronic	470	7	1.47	109	74	40.44	40.44	Somatic	0.000	154	101	39.61	39.61	Somatic	0.000	1	
610184	4	7,547,504	G	A	SORCS2	2	intronic	218	3	1.36	29	20	40.82	40.82	Somatic	0.000	266	182	40.62	40.62	Somatic	0.000	1	
610184	4	9,913,945	A	G	LOC644517	1	rna	188	3	1.57	78	3	3.7	3.7	Somatic	0.250	259	22	7.83	7.83	Somatic	0.002	3	
610184	4	12,781,419	G	A	0	3	0	1799	2	0.11	1587	17	1.06	1.06	Somatic	0.000	441	218	33.08	33.08	Somatic	0.000	2	
610184	4	18,827,688	C	T	ENSG00000209240	3	5_prime_flanking_region	278	1	0.36	281	223	44.25	44.25	Somatic	0.000	208	159	43.32	43.32	Somatic	0.000	1	
610184	4	19,027,897	T	A	0	3	0	629	5	0.79	404	311	43.5	43.5	Somatic	0.000	301	222	42.45	42.45	Somatic	0.000	1	
610184	4	20,157,633	G	A	SLIT2	3	intronic	234	3	1.27	309	236	43.3	43.3	Somatic	0.000	148	99	40.08	40.08	Somatic	0.000	1	
610184	4	30,673,325	T	C	PCDH7	2	intronic	992	8	0.8	448	352	44	44	Somatic	0.000	310	279	47.37	47.37	Somatic	0.000	1	
610184	4	32,760,315	C	G	0	3	0	851	17	1.96	507	460	47.57	47.57	Somatic	0.000	365	293	44.53	44.53	Somatic	0.000	1	
610184	4	43,284,693	C	A	ENSG0000022933	3	3_prime_flanking_region	1029	19	1.81	580	403	40.62	40.62	Somatic	0.000	369	327	46.98	46.98	Somatic	0.000	1	
610184	4	44,888,079	A	G	0	3	0	436	7	1.58	376	6	1.57	1.57	Somatic	0.611	355	34	8.74	8.74	Somatic	0.000	3	
610184	4	52,689,659	G	A	SPATA18	2	3_prime_flanking_region	769	1	0.13	514	390	43.14	43.14	Somatic	0.000	345	291	45.75	45.75	Somatic	0.000	1	
610184	4	58,995,392	G	A	0	3	0	1069	0	0	718	11	1.51	1.51	Somatic	0.000	305	119	28.07	28.07	Somatic	0.000	2	
610184	4	61,500,955	G	A	0	3	0	228	2	0.87	99	110	52.63	52.63	Somatic	0.000	106	66	38.37	38.37	Somatic	0.000	0	
610184	4	66,595,263	C	T	ENSG00000210740	2	5_prime_flanking_region	867	2	0.23	493	369	42.81	42.81	Somatic	0.000	246	186	43.06	43.06	Somatic	0.000	1	
610184	4	67,395,317	A	T	0	3	0	574	1	0.17	371	12	3.13	3.13	Somatic	0.000	421	195	31.66	31.66	Somatic	0.000		

610184	5	108,316,140	T	A	FER	3	intronic	135	4	2.88	19	2	9.52	5.68	Reference	0.178	26	9	25.71	15.94	Somatic	0.000	0	
610184	5	108,316,142	G	C	FER	3	intronic	129	3	2.27	19	0	0	0	Reference	0.666	26	8	23.53	14.59	Somatic	0.000	0	
610184	5	126,074,938	C	A	LOC644754	3	5_prime_flanking_region	869	0	0	164	0	0	0	Reference	1.000	238	12	4.8	2.98	Somatic	0.000	0	
610184	5	145,643,907	T	C	RBM27	3	intronic	368	1	0.27	39	154	79.79	47.57	Somatic	0.000	52	249	82.72	51.29	Somatic	0.000	1	
610184	5	147,452,245	G	A	SPINK5	3	intronic	793	1	0.13	126	355	73.8	44	Somatic	0.000	59	303	83.7	51.89	Somatic	0.000	1	
610184	5	147,642,469	T	G	SPINK5L3	3	intronic	1102	13	1.17	146	549	78.99	47.1	Somatic	0.000	51	241	82.53	51.17	Somatic	0.000	1	
610184	5	155,687,867	C	T	SGCD	3	intronic	639	5	0.78	80	335	80.72	48.13	Somatic	0.000	59	298	83.47	51.75	Somatic	0.000	1	
610184	5	167,260,809	A	C	ODZ2	3	intronic	1089	1	0.09	514	389	43.08	43.08	Somatic	0.000	264	242	47.83	47.83	Somatic	0.000	1	
610184	5	176,194,928	C	T	UNC5A	3	intronic	737	7	0.94	64	62	49.21	49.21	Somatic	0.000	181	195	51.86	51.86	Somatic	0.000	1	
610184	5	179,728,592	G	A	GFTP2	3	5_prime_flanking_region	222	0	0	104	1	0.95	0.95	Reference	0.321	315	133	29.69	29.69	Somatic	0.000	0	
610184	6	6,856,693	G	A	ENSG00000222702	3	3_prime_flanking_region	1089	4	0.37	363	279	43.46	43.46	Somatic	0.000	322	260	44.67	44.67	Somatic	0.000	1	
610184	6	6,887,195	G	A	ENSG00000222702	3	5_prime_flanking_region	892	20	2.19	211	154	42.19	42.19	Somatic	0.000	317	253	44.39	44.39	Somatic	0.000	1	
610184	6	23,755,054	G	A	ENSG00000219453	2	5_prime_flanking_region	493	1	0.2	620	18	2.82	2.82	Somatic	0.000	372	166	30.86	30.86	Somatic	0.000	2	
610184	6	26,647,130	T	G	HMGN4	2	intronic	491	12	2.39	101	71	41.28	41.28	Somatic	0.000	257	216	45.67	45.67	Somatic	0.000	1	
610184	6	46,018,087	A	T	CLIC5	2	intronic	838	3	0.36	719	21	2.84	2.84	Somatic	0.000	368	141	27.7	27.7	Somatic	0.000	2	
610184	6	64,333,130	A	C	PTP4A1	3	5_prime_flanking_region	692	18	2.54	277	194	41.19	41.19	Somatic	0.000	343	290	45.81	45.81	Somatic	0.000	1	
610184	6	74,944,540	C	A	ENSG00000216378	0	2	0	749	13	1.71	482	436	47.49	47.49	Somatic	0.000	372	300	44.64	44.64	Somatic	0.000	1
610184	6	77,217,063	A	G	ENSG00000222702	0	3	0	457	5	1.08	256	175	40.6	40.6	Somatic	0.000	318	253	44.31	44.31	Somatic	0.000	1
610184	6	93,775,088	C	T	ENSG00000222702	0	3	0	347	0	0	731	14	1.88	1.88	Somatic	0.005	261	127	32.73	32.73	Somatic	0.000	2
610184	6	95,337,385	T	G	ENSG00000219453	0	2	0	429	3	0.69	544	276	33.66	33.66	Somatic	0.000	452	43	8.69	8.69	Somatic	0.000	0
610184	6	95,359,699	G	C	ENSG00000219453	0	3	0	774	10	1.28	391	265	40.4	40.4	Somatic	0.000	286	241	45.73	45.73	Somatic	0.000	1
610184	6	96,284,618	G	A	ENSG00000219453	0	3	0	676	3	0.44	365	305	45.52	45.52	Somatic	0.000	192	167	46.52	46.52	Somatic	0.000	1
610184	6	100,772,708	C	A	ENSG00000216378	3	3_prime_flanking_region	363	1	0.27	181	127	41.23	41.23	Somatic	0.000	75	62	45.26	45.26	Somatic	0.000	1	
610184	6	103,717,037	A	T	ENSG00000214428	0	3	0	599	9	1.48	323	256	44.21	44.21	Somatic	0.000	307	290	48.58	48.58	Somatic	0.000	1
610184	6	104,530,650	A	G	ENSG00000214428	3	3_prime_flanking_region	132	7	5.04	228	176	43.56	43.56	Somatic	0.000	74	54	42.19	42.19	Somatic	0.000	1	
610184	6	114,604,699	G	A	ENSG00000212333	3	3_prime_flanking_region	716	17	2.32	254	174	40.65	40.65	Somatic	0.000	325	241	42.58	42.58	Somatic	0.000	1	
610184	6	116,397,438	C	T	FRR	3	intronic	469	1	0.21	650	23	3.42	3.42	Somatic	0.000	362	189	34.3	34.3	Somatic	0.000	2	
610184	6	125,676,815	C	T	HDDC2	2	5_prime_flanking_region	939	8	0.84	278	212	43.27	43.27	Somatic	0.000	241	211	46.68	46.68	Somatic	0.000	1	
610184	6	129,188,415	T	A	ENSG00000216378	0	3	0	673	6	0.88	571	424	42.61	42.61	Somatic	0.000	253	205	44.76	44.76	Somatic	0.000	1
610184	6	134,099,023	G	A	ENSG00000216378	0	3	0	881	6	0.68	542	426	44.01	44.01	Somatic	0.000	309	213	40.8	40.8	Somatic	0.000	1
610184	6	138,476,831	T	C	KIAA1244	3	5_prime_flanking_region	826	3	0.36	231	197	46.03	46.03	Somatic	0.000	319	279	46.66	46.66	Somatic	0.000	1	
610184	6	142,774,104	T	C	GPR126	3	intronic	633	6	0.94	565	447	44.17	44.17	Somatic	0.000	297	302	50.42	50.42	Somatic	0.000	1	
610184	6	145,735,129	C	T	ENSG00000221796	3	3_prime_flanking_region	1058	0	0	1533	19	1.22	1.22	Somatic	0.000	546	274	33.41	33.41	Somatic	0.000	2	
610184	6	146,389,604	C	T	GRM1	2	5_prime_flanking_region	1179	1	0.08	589	5	0.84	0.84	Somatic	0.018	418	198	32.14	32.14	Somatic	0.000	2	
610184	6	147,387,301	T	C	LOC729178	3	5_prime_flanking_region	124	3	2.36	169	169	50	50	Somatic	0.000	56	64	53.33	53.33	Somatic	0.000	1	
610184	6	159,763,896	G	A	ENSG00000216378	0	2	0	674	9	1.32	270	157	36.77	36.77	Somatic	0.000	322	250	43.71	43.71	Somatic	0.000	1
610184	6	162,491,599	C	T	PARK2	3	intronic	909	2	0.22	1031	35	3.28	3.28	Somatic	0.000	385	192	33.28	33.28	Somatic	0.000	2	
610184	6	168,420,432	A	G	DACT2	3	3_prime_flanking_region	518	5	0.96	121	94	43.72	43.72	Somatic	0.000	266	221	45.38	45.38	Somatic	0.000	1	
610184	7	19,419,458	A	C	DACT2	0	2	0	376	0	0	297	1	0.34	0.34	Reference	0.442	144	17	10.56	7.16	Somatic	0.000	0
610184	7	20,693,369	C	A	ABCBS5	3	intronic	556	0	0	403	6	1.47	1.47	Somatic	0.006	293	26	8.15	8.15	Somatic	0.000	3	
610184	7	20,693,371	A	T	ABCBS5	3	intronic	564	0	0	405	7	1.7	1.7	Somatic	0.002	292	26	8.18	8.18	Somatic	0.000	3	
610184	7	22,478,537	C	T	ud010kum.1	3	intronic	358	3	0.83	196	192	49.48	49.48	Somatic	0.000	309	245	44.22	44.22	Somatic	0.000	1	
610184	7	31,514,704	G	T	CCDC129	3	5_prime_flanking_region	1086	18	1.63	724	9	1.23	1.23	Somatic	0.815	367	39	9.61	6.76	Somatic	0.000	3	
610184	7	31,525,865	C	T	ENSG00000216378	0	3	0	327	0	0	335	11	3.18	3.18	Somatic	0.001	262	142	35.15	35.15	Somatic	0.000	2
610184	7	31,542,132	C	A	LOC100129159	3	intronic	234	1	0.43	160	93	36.76	36.76	Somatic	0.000	127	96	43.05	43.05	Somatic	0.000	1	
610184	7	54,044,067	T	C	LOC100134708	3	3_prime_flanking_region	612	5	0.81	421	326	43.64	43.64	Somatic	0.000	273	158	36.66	36.66	Somatic	0.000	1	
610184	7	55,172,387	C	T	EGFR	3	intronic	269	1	0.37	123	102	45.33	45.33	Somatic	0.000	243	194	44.39	44.39	Somatic	0.000	1	
610184	7	56,679,983	C	G	LOC730382	3	3_prime_flanking_region	650	8	1.22	234	186	44.29	44.29	Somatic	0.000	202	168	45.41	45.41	Somatic	0.000	1	
610184	7	62,308,751	T	C	ENSG00000199231	2	5_prime_flanking_region	647	7	1.07	239	174	42.13	42.13	Somatic	0.000	117	217	64.97	49.12	Somatic	0.000	1	
610184	7	63,418,626	A	C	LOC728927	2	intronic	309	0	0	370	2	0.54	0.54	Reference	0.298	196	15	7.11	5.37	Somatic	0.000	0	
610184	7	68,175,918	A	T	ENSG00000211270	3	3_prime_flanking_region	1668	0	0	510	1	0.2	0.2	Reference	0.235	409	94	18.69	18.69	Somatic	0.000	0	
610184	7	68,175,920	G	T	ENSG00000211270	3	3_prime_flanking_region	1669	0	0	513	1	0.19	0.19	Reference	0.235	403	90	18.26	18.26	Somatic	0.000	0	
610184	7	70,049,103	G	T	ATXN7L1	0	3	0	731	4	0.54	434	12	2.69	2.69	Somatic	0.003	344	146	29.8	29.8	Somatic	0.000	2
610184	7	79,732,652	G	A	ABCBS4	3	intronic	752	5	0.66	453	332	42.29	42.29	Somatic	0.000	130	182</						

610184	8	79,337,831	C	T	0	3	0	404	4	0.98	294	238	44.74	44.74	Somatic	0.000	243	185	43.22	43.22	Somatic	0.000	1
610184	8	92,882,972	G	A	0	3	0	587	3	0.51	294	180	37.97	37.97	Somatic	0.000	380	274	41.9	41.9	Somatic	0.000	1
610184	8	94,044,367	G	C	C8orf83	3	intronic	621	15	2.36	351	277	44.11	44.11	Somatic	0.000	369	277	42.88	42.88	Somatic	0.000	1
610184	8	94,396,170	C	T	0	3	0	489	8	1.61	312	233	42.75	42.75	Somatic	0.000	185	179	49.18	49.18	Somatic	0.000	1
610184	8	99,957,165	G	A	ENSG00000223281	3	_prime_flanking_region	1093	19	1.71	863	665	43.52	43.52	Somatic	0.000	410	378	47.97	47.97	Somatic	0.000	1
610184	8	110,219,823	T	A	TRHR	3	_prime_flanking_region	713	14	1.93	382	283	42.56	42.56	Somatic	0.000	326	280	46.2	46.2	Somatic	0.000	1
610184	8	114,269,575	C	T	CSMD3	3	intronic	362	3	0.82	340	237	41.07	41.07	Somatic	0.000	153	100	39.53	39.53	Somatic	0.000	1
610184	8	132,351,648	C	T	0	3	0	913	34	3.59	526	360	40.63	40.63	Somatic	0.000	293	226	43.55	43.55	Somatic	0.000	1
610184	8	139,559,631	T	C	FAM135B	2	intronic	1228	19	1.52	925	32	3.34	3.34	Somatic	0.004	431	64	12.93	12.93	Somatic	0.000	0
610184	8	139,772,134	G	A	COL22A1	3	intronic	450	6	1.32	135	98	42.06	42.06	Somatic	0.000	278	233	45.6	45.6	Somatic	0.000	1
610184	9	3,823,891	A	G	GUS3	3	intronic	476	1	0.21	580	10	1.69	1.69	Somatic	0.014	236	138	36.9	36.9	Somatic	0.000	2
610184	9	7,283,846	G	A	LOC100134424	3	_prime_flanking_region	796	19	2.33	698	404	36.66	36.66	Somatic	0.000	297	227	43.32	43.32	Somatic	0.000	1
610184	9	13,513,449	G	A	0	3	0	985	12	1.2	481	375	43.81	43.81	Somatic	0.000	287	262	47.72	47.72	Somatic	0.000	1
610184	9	17,624,018	C	T	SH3GL2	3	intronic	1047	12	1.13	686	518	43.02	43.02	Somatic	0.000	436	299	40.68	40.68	Somatic	0.000	1
610184	9	26,390,452	A	T	0	3	0	977	11	1.11	524	422	44.61	44.61	Somatic	0.000	232	196	45.79	45.79	Somatic	0.000	1
610184	9	26,694,594	T	C	0	3	0	980	2	0.2	1431	51	3.44	3.44	Somatic	0.000	438	225	33.94	33.94	Somatic	0.000	2
610184	9	71,945,662	G	A	MAMD2	3	intronic	376	3	0.79	345	254	42.4	42.4	Somatic	0.000	192	130	40.37	40.37	Somatic	0.000	1
610184	9	79,349,936	C	A	GNA14	2	intronic	881	6	0.68	572	437	43.31	43.31	Somatic	0.000	341	240	41.31	41.31	Somatic	0.000	1
610184	9	92,321,495	C	T	LOC340515	3	intronic	467	6	1.27	513	381	42.62	42.62	Somatic	0.000	280	209	42.74	42.74	Somatic	0.000	1
610184	9	92,496,060	A	T	ENSG00000187503	3	_prime_flanking_region	1216	17	1.38	422	314	42.66	42.66	Somatic	0.000	229	172	42.89	42.89	Somatic	0.000	1
610184	9	101,248,520	C	T	0	3	0	815	5	0.61	383	319	45.44	45.44	Somatic	0.000	317	219	40.86	40.86	Somatic	0.000	1
610184	9	102,714,834	G	T	ENSG00000220727	3	_prime_untranslated_region	854	6	0.7	381	253	39.91	39.91	Somatic	0.000	370	296	44.44	44.44	Somatic	0.000	1
610184	9	103,307,698	A	G	C9orf125	3	intronic	685	5	0.72	330	226	40.65	40.65	Somatic	0.000	240	178	42.58	42.58	Somatic	0.000	1
610184	9	108,643,534	C	A	ZNF462	3	_prime_flanking_region	306	6	1.92	157	133	45.86	45.86	Somatic	0.000	82	76	48.1	48.1	Somatic	0.000	1
610184	9	111,288,692	T	A	PTPN3	3	intronic	413	2	0.48	204	4	1.92	1.92	Somatic	0.100	290	132	31.28	31.28	Somatic	0.000	2
610184	9	119,232,753	G	C	ASTN2	3	_prime_flanking_region	639	12	1.84	165	118	41.7	41.7	Somatic	0.000	185	168	47.59	47.59	Somatic	0.000	1
610184	9	120,897,032	G	A	0	3	0	1155	0	0	1310	38	2.82	2.82	Somatic	0.000	414	189	31.34	31.34	Somatic	0.000	2
610184	9	123,992,593	C	T	MORN5	3	intronic	333	3	0.89	100	82	45.05	45.05	Somatic	0.000	138	77	35.81	35.81	Somatic	0.000	1
610184	9	127,739,736	T	A	PBX3	3	intronic	354	1	0.28	184	148	44.58	44.58	Somatic	0.000	177	172	49.28	49.28	Somatic	0.000	1
610184	9	131,653,821	A	G	USP20	3	intronic	548	5	0.9	63	48	43.24	43.24	Somatic	0.000	331	304	47.87	47.87	Somatic	0.000	1
610184	9	135,665,160	G	C	VAV2	3	intronic	152	0	0	22	16	42.11	42.11	Somatic	0.000	262	231	46.86	46.86	Somatic	0.000	1
610184	10	17,781,689	G	A	ITIH5	3	_prime_flanking_region	636	0	0	436	7	1.58	1.58	Somatic	0.002	545	264	32.63	32.63	Somatic	0.000	2
610184	10	12,959,476	C	A	CAMK1D	3	_prime_flanking_region	485	10	2.02	174	122	41.22	41.22	Somatic	0.000	210	153	42.15	42.15	Somatic	0.000	1
610184	10	17,683,965	T	C	PTPLA	3	intronic	389	0	0	335	8	2.33	2.33	Somatic	0.002	438	189	30.14	30.14	Somatic	0.000	2
610184	10	34,613,165	C	T	PARD3	1	missense	519	4	0.76	302	262	46.45	46.45	Somatic	0.000	268	192	41.74	41.74	Somatic	0.000	1
610184	10	34,852,956	A	G	PARD3	3	intronic	624	10	1.58	409	316	43.59	43.59	Somatic	0.000	179	160	47.2	47.2	Somatic	0.000	1
610184	10	36,119,972	C	A	0	3	0	741	0	0	506	23	4.35	4.35	Somatic	0.000	539	260	32.54	32.54	Somatic	0.000	2
610184	10	56,591,416	T	A	PCDH15	3	intronic	362	2	0.55	266	268	50.19	50.19	Somatic	0.000	149	132	46.98	46.98	Somatic	0.000	1
610184	10	60,077,273	G	T	BICC1	3	intronic	482	3	0.62	412	322	43.87	43.87	Somatic	0.000	248	225	47.57	47.57	Somatic	0.000	1
610184	10	61,712,132	T	C	ANK3	2	intronic	706	18	2.49	399	363	47.64	47.64	Somatic	0.000	325	252	43.67	43.67	Somatic	0.000	1
610184	10	63,490,649	C	G	ARID5B	2	intronic	585	8	1.35	287	234	44.91	44.91	Somatic	0.000	379	289	43.26	43.26	Somatic	0.000	1
610184	10	68,073,182	A	G	CTNNAA3	3	intronic	553	7	1.25	370	282	43.25	43.25	Somatic	0.000	141	123	46.59	46.59	Somatic	0.000	1
610184	10	72,076,297	T	C	ADAMTS14	3	_prime_flanking_region	409	9	2.15	139	114	45.06	45.06	Somatic	0.000	309	290	48.41	48.41	Somatic	0.000	1
610184	10	84,380,769	A	C	NRG3	2	intronic	892	1	0.11	627	12	1.88	1.88	Somatic	0.000	394	65	14.16	14.16	Somatic	0.000	0
610184	10	92,095,308	G	A	0	3	0	1712	14	0.81	548	421	43.45	43.45	Somatic	0.000	341	263	43.54	43.54	Somatic	0.000	1
610184	10	103,187,897	T	C	BTRC	3	intronic	428	0	0	579	4	0.69	0.69	Reference	0.110	408	178	30.38	30.38	Somatic	0.000	0
610184	10	104,816,101	G	A	CNNM2	2	intronic	422	8	1.86	157	137	46.6	46.6	Somatic	0.000	311	244	43.96	43.96	Somatic	0.000	1
610184	10	113,614,328	G	A	0	3	0	711	18	2.47	354	236	40	40	Somatic	0.000	317	242	43.29	43.29	Somatic	0.000	1
610184	10	13,101,188	C	T	MGMT	3	_prime_flanking_region	837	8	0.95	416	240	36.59	36.59	Somatic	0.000	275	214	43.76	43.76	Somatic	0.000	1
610184	10	30,793,632	C	T	LOC100134181	1	missense	837	8	0.95	416	240	36.59	36.59	Somatic	0.000	275	214	43.76	43.76	Somatic	0.000	1
610184	10	35,337,425	C	T	SLC1A2	3	intronic	1127	0	0	1130	47	3.99	3.99	Somatic	0.000	492	223	31.19	31.19	Somatic	0.000	2
610184	10	37,046,814	T	C	0	3	0	359	7	1.91	543	434	44.42	44.42	Somatic	0.000	115	98	46.01	46.01	Somatic	0.000	1
610184	10	38,670,518	T	C	0	3	0	99	0	0	271	9	3.21	3.21	Somatic	0.063	44	20	31.25	31.25	Somatic	0.000	2
610184	10	41,926,178	G	A	0	3	0	506	12	2.32	386	256	39.88	39.88	Somatic	0.000	318	203	38.96	38.96	Somatic	0.000	1
610184	10	48,984,688	T	C	LOC120824	2	_prime_flanking_region	609	16	2.56	243	177	42.14	42.14	Somatic	0.000	246	161	39.56	39.56</			

610184	12	97,877,157	T	C	ANKS1B	3 intronic	1163	12	1.02	609	452	42.6	42.6	Somatic	0.000	365	297	44.86	44.86	Somatic	0.000	1	
610184	12	98,155,328	C	A	ANKS1B	3 intronic	571	1	0.17	788	1	0.13	0.13	Reference	0.824	360	20	5.26	5.26	Somatic	0.000	0	
610184	12	101,947,457	C	T		0 3	0	542	12	2.17	308	275	47.17	47.17	Somatic	0.000	316	258	44.95	44.95	Somatic	0.000	1
610184	12	104,643,183	A	G		0 2	0	842	21	2.43	381	350	47.88	47.88	Somatic	0.000	202	193	48.86	48.86	Somatic	0.000	1
610184	12	104,945,469	C	G	NUAK1	3 _3_prime_flanking_region	1085	19	1.72	312	268	46.21	46.21	Somatic	0.000	316	296	48.37	48.37	Somatic	0.000	1	
610184	12	107,309,027	G	A	DAO	3 _3_prime_flanking_region	1432	29	1.98	660	542	45.09	45.09	Somatic	0.000	365	246	40.26	40.26	Somatic	0.000	1	
610184	12	107,826,022	G	A		3 _3_prime_flanking_region	532	11	2.03	63	59	48.36	48.36	Somatic	0.000	292	250	46.13	46.13	Somatic	0.000	1	
610184	12	112,037,431	C	T	RASAL1	1 nonsense	411	14	3.29	40	37	48.05	48.05	Somatic	0.000	352	266	43.04	43.04	Somatic	0.000	1	
610184	12	117,373,760	C	T	SUDS3	3 _3_prime_flanking_region	712	8	1.11	395	325	45.14	45.14	Somatic	0.000	380	296	43.79	43.79	Somatic	0.000	1	
610184	12	125,650,182	G	A	ENSG00000209315	3 _3_prime_flanking_region	1055	19	1.77	427	325	43.22	43.22	Somatic	0.000	431	337	43.88	43.88	Somatic	0.000	1	
610184	13	23,598,345	G	A	SPATA13	3 _5_prime_flanking_region	411	5	1.2	122	109	47.19	47.19	Somatic	0.000	250	210	45.65	45.65	Somatic	0.000	1	
610184	13	25,982,996	C	T	WASF3	3 _5_prime_flanking_region	640	8	1.23	261	243	48.21	48.21	Somatic	0.000	239	217	47.59	47.59	Somatic	0.000	1	
610184	13	29,796,116	G	T	KATNAL1	3 _5_prime_flanking_region	1125	13	1.14	283	237	45.58	45.58	Somatic	0.000	357	250	41.19	41.19	Somatic	0.000	1	
610184	13	35,464,339	C	T	DCLK1	3 intronic	573	2	0.35	364	1	0.27	0.27	Reference	0.772	376	165	30.5	30.5	Somatic	0.000	0	
610184	13	37,006,573	G	A	POSTN	3 _3_prime_flanking_region	1150	10	0.86	448	313	41.13	41.13	Somatic	0.000	327	287	46.74	46.74	Somatic	0.000	1	
610184	13	43,512,493	C	T		0 3	0	1190	14	1.16	157	431	73.3	73.3	Somatic	0.000	76	301	79.84	79.84	Somatic	0.000	1
610184	13	53,714,139	C	T		0 2	0	551	4	0.72	373	267	41.72	41.72	Somatic	0.000	331	317	48.92	48.92	Somatic	0.000	1
610184	13	54,215,954	T	C		0 3	0	668	3	0.45	198	153	43.59	43.59	Somatic	0.000	211	202	48.91	48.91	Somatic	0.000	1
610184	13	55,086,209	G	T		0 3	0	500	4	0.79	226	150	39.89	39.89	Somatic	0.000	281	229	44.9	44.9	Somatic	0.000	1
610184	13	70,562,213	A	G		0 3	0	710	9	1.25	145	136	48.4	48.4	Somatic	0.000	294	214	42.13	42.13	Somatic	0.000	1
610184	13	75,728,242	C	T		0 3	0	446	0	0	427	1	0.23	0.23	Reference	0.490	373	59	13.66	13.66	Somatic	0.000	0
610184	13	81,509,432	G	A		0 3	0	298	5	1.65	287	221	43.5	43.5	Somatic	0.000	275	245	47.12	47.12	Somatic	0.000	1
610184	13	81,746,083	A	T	LOC647313	3 _3_prime_flanking_region	440	3	0.68	143	85	37.28	37.28	Somatic	0.000	172	136	44.16	44.16	Somatic	0.000	1	
610184	13	104,020,806	G	T		0 2	0	1050	7	0.66	382	220	36.54	36.54	Somatic	0.000	305	244	44.44	44.44	Somatic	0.000	1
610184	13	106,978,890	C	T	FAM155A	3 intronic	880	7	0.79	505	365	41.95	41.95	Somatic	0.000	258	187	42.02	42.02	Somatic	0.000	1	
610184	13	107,195,236	A	G	FAM155A	3 intronic	422	4	0.94	180	150	44.25	44.25	Somatic	0.000	150	130	46.43	46.43	Somatic	0.000	1	
610184	14	23,582,227	T	C	DHRS4L1	3 intronic	326	5	1.51	63	54	46.15	46.15	Somatic	0.000	132	140	51.47	51.47	Somatic	0.000	1	
610184	14	28,957,684	G	A	ENSG00000212061	3 _5_prime_flanking_region	233	9	3.72	237	161	40.45	40.45	Somatic	0.000	72	54	42.86	42.86	Somatic	0.000	1	
610184	14	50,974,811	T	A	LOC729335	2 _5_prime_flanking_region	301	0	0	274	6	2.14	2.14	Somatic	0.012	124	66	34.74	34.74	Somatic	0.000	2	
610184	14	56,082,161	C	G	C14orf101	3 _5_prime_flanking_region	677	6	0.88	328	274	45.51	45.51	Somatic	0.000	294	245	45.45	45.45	Somatic	0.000	1	
610184	14	58,799,775	G	A	DAAM1	3 intronic	1489	14	0.93	531	462	46.53	46.53	Somatic	0.000	390	305	43.88	43.88	Somatic	0.000	1	
610184	14	62,240,963	A	C	KCNHS1	2 _3_prime_flanking_region	816	18	2.16	741	13	1.72	1.72	Somatic	0.789	530	63	10.62	10.62	Somatic	0.000	3	
610184	14	77,774,796	C	T	NRXN3	3 _5_prime_flanking_region	1137	12	1.04	542	424	43.89	43.89	Somatic	0.000	329	291	46.94	46.94	Somatic	0.000	1	
610184	14	82,067,355	C	T		0 3	0	959	13	1.34	900	762	45.85	45.85	Somatic	0.000	396	326	45.15	45.15	Somatic	0.000	1
610184	14	82,770,151	T	G		0 3	0	678	0	0	640	9	1.39	1.39	Somatic	0.002	400	164	29.08	29.08	Somatic	0.000	2
610184	14	86,928,469	G	T		0 3	0	665	0	0	641	23	3.46	3.46	Somatic	0.000	303	132	30.34	30.34	Somatic	0.000	2
610184	14	98,452,082	G	A		0 3	0	1570	20	1.26	395	272	40.78	40.78	Somatic	0.000	282	238	45.77	45.77	Somatic	0.000	1
610184	14	99,810,921	T	C	YY1	3 intronic	697	0	0	351	1	0.28	0.28	Reference	0.336	417	104	19.96	19.96	Somatic	0.000	0	
610184	14	101,739,782	C	T	WDR20	2 intronic	385	3	0.77	114	108	48.65	48.65	Somatic	0.000	180	161	47.21	47.21	Somatic	0.000	1	
610184	14	103,110,002	T	C	C14orf153	3 intronic	560	0	0	176	2	1.12	1.12	Reference	0.058	486	110	18.46	18.46	Somatic	0.000	0	
610184	15	31,508,942	A	G	RYR3	3 intronic	803	5	0.62	706	488	40.87	40.87	Somatic	0.000	420	313	42.7	42.7	Somatic	0.000	1	
610184	15	33,853,601	C	A		0 3	0	837	11	1.3	499	385	43.55	43.55	Somatic	0.000	263	217	45.21	45.21	Somatic	0.000	1
610184	15	34,945,338	G	A	ENSG00000178351	3 _5_prime_flanking_region	629	6	0.94	302	239	44.18	44.18	Somatic	0.000	272	179	39.69	39.69	Somatic	0.000	1	
610184	15	45,026,481	T	A		0 3	0	1319	13	0.98	543	404	42.66	42.66	Somatic	0.000	382	295	43.57	43.57	Somatic	0.000	1
610184	15	46,110,356	G	A		0 3	0	550	11	1.96	290	226	43.8	43.8	Somatic	0.000	364	293	44.6	44.6	Somatic	0.000	1
610184	15	47,227,467	C	T	COP52	2 intronic	854	8	0.93	398	316	44.26	44.26	Somatic	0.000	400	348	46.52	46.52	Somatic	0.000	1	
610184	15	55,168,393	G	C	TCF12	3 intronic	633	13	2.01	415	274	39.77	39.77	Somatic	0.000	360	309	46.19	46.19	Somatic	0.000	1	
610184	16	57,353,786	G	A	DNAJ4A	1 missense	460	7	1.5	98	68	40.96	40.96	Somatic	0.000	267	235	46.81	46.81	Somatic	0.000	1	
610184	16	52,525,457	A	G	LOC100129495	1 rna	64	0	0	21	14	40	40	Somatic	0.000	98	80	44.94	44.94	Somatic	0.000	1	
610184	16	29,918,724	G	A	IN080E	3 intronic	677	4	0.59	34	40	54.05	54.05	Somatic	0.000	288	277	49.03	49.03	Somatic	0.000	0	
610184	16	31,084,668	G	A	PRSS8	2 _5_prime_flanking_region	451	7	1.53	30	31	50.82	50.82	Somatic	0.000	213	135	38.79	38.79	Somatic	0.000	0	
610184	16	33,850,182	G	A	LOC100132267	2 _5_prime_flanking_region	657	32	4.64	259	51	16.45	16.45	Somatic	0.000	925	88	8.69	8.69	Somatic	0.001	0	
610184	16	34,309,579	T	A	UBE2MP1	2 _5_prime_flanking_region	441	1	0.23	146	6	3.95	3.95	Somatic	0.001	183	79	30.15	30.15	Somatic	0.000	2	
610184	16	47,026,955	T	C		0 3	0	330	6	1.79	122	100	45.05	45.05	Somatic	0.000	236	224	48.7	48.7	Somatic	0.000	1
610184	16	55,390,747	A	C	NUP93	3 intronic	953	19	1.95	1119	23	2.01	2.01	Somatic	0.525	473	30	5.96	5.96	Somatic	0.000	3	
610184	16	60,015,503	A	G		0 3	0	604	13	2.11	384</td												

610184	20	17,427,699	C	T	BFSP1	3	intronic	616	11	1.75	139	90	39.3	39.3	Somatic	0.000	422	346	45.05	45.05	Somatic	0.000	1	
610184	20	19,964,125	T	C	CRNL1	3	3_prime_untranslated_region	608	3	0.49	484	365	42.99	42.99	Somatic	0.000	255	243	48.8	48.8	Somatic	0.000	1	
610184	20	40,216,994	G	T	PTPRT	3	intronic	912	21	2.25	574	429	42.77	42.77	Somatic	0.000	334	245	42.31	42.31	Somatic	0.000	1	
610184	20	47,549,620	G	A	KCNB1	3	5_prime_flanking_region	850	12	1.39	141	152	51.88	51.88	Somatic	0.000	345	264	43.35	43.35	Somatic	0.000	0	
610184	20	56,563,701	T	G	APCDD1L	2	5_prime_flanking_region	819	9	1.09	183	106	36.68	36.68	Somatic	0.000	397	360	47.56	47.56	Somatic	0.000	1	
610184	21	10,173,877	G	T	VN1R7P	3	3_prime_flanking_region	610	25	3.94	584	53	8.32	8.32	Somatic	0.001	613	91	12.93	12.93	Somatic	0.000	0	
610184	21	10,173,877	G	T	VN1R7P	3	3_prime_flanking_region	610	25	3.94	584	53	8.32	8.32	Somatic	0.001	613	91	12.93	12.93	Somatic	0.000	0	
610184	21	23,700,091	T	A	ENSG00000199698	3	3_prime_flanking_region	116	3	2.52	79	54	40.6	40.6	Somatic	0.000	93	89	48.9	48.9	Somatic	0.000	1	
610184	21	37,465,934	A	G	TTC3	2	intronic	312	3	0.95	307	258	45.66	45.66	Somatic	0.000	315	268	45.97	45.97	Somatic	0.000	1	
610184	21	38,153,117	A	C	KCNJ6	3	intronic	674	9	1.32	468	396	45.83	45.83	Somatic	0.000	255	182	41.65	41.65	Somatic	0.000	1	
610184	21	40,935,445	C	T	DSCAM	3	intronic	780	4	0.51	487	353	42.02	42.02	Somatic	0.000	258	196	43.17	43.17	Somatic	0.000	1	
610184	22	16,172,676	G	A	ENSG00000209324	3	3_prime_flanking_region	423	9	2.08	177	118	40	40	Somatic	0.000	250	172	40.76	40.76	Somatic	0.000	1	
610184	22	22,840,162	G	T	CABIN1	2	intronic	244	3	1.21	50	44	46.81	46.81	Somatic	0.000	150	133	47	47	Somatic	0.000	1	
610184	22	30,691,681	C	T	C2orf24	3	5_prime_flanking_region	476	7	1.45	85	82	49.1	49.1	Somatic	0.000	189	134	41.49	41.49	Somatic	0.000	1	
610184	22	47,801,957	C	A		0	3	0	178	3	1.66	36	26	41.94	41.94	Somatic	0.000	234	170	42.08	42.08	Somatic	0.000	1
610184	X	7,124,006	C	A	STS	3	5_prime_flanking_region	1282	10	0.77	865	607	41.24	41.24	Somatic	0.000	400	315	44.06	44.06	Somatic	0.000	1	
610184	X	20,691,776	G	A		0	3	0	1115	24	2.11	500	418	45.53	45.53	Somatic	0.000	394	323	45.05	45.05	Somatic	0.000	1
610184	X	23,726,028	C	A	ACOT9	3	5_prime_flanking_region	316	6	1.86	104	83	44.39	44.39	Somatic	0.000	136	94	40.87	40.87	Somatic	0.000	1	
610184	X	25,317,977	T	C		0	3	0	1080	14	1.28	503	398	44.17	44.17	Somatic	0.000	406	240	37.15	37.15	Somatic	0.000	1
610184	X	26,501,632	C	T	VENTXP1	3	3_prime_flanking_region	688	7	1.01	230	154	40.1	40.1	Somatic	0.000	245	167	40.53	40.53	Somatic	0.000	1	
610184	X	26,655,979	A	C	ENSG00000170817	3	5_prime_flanking_region	759	2	0.26	487	380	43.83	43.83	Somatic	0.000	281	241	46.17	46.17	Somatic	0.000	1	
610184	X	26,914,589	A	T		0	3	0	1012	13	1.27	551	444	44.62	44.62	Somatic	0.000	317	270	46	46	Somatic	0.000	1
610184	X	28,344,104	G	A		0	3	0	871	12	1.36	485	366	43.01	43.01	Somatic	0.000	329	268	44.89	44.89	Somatic	0.000	1
610184	X	32,323,879	A	G	DMD	3	intronic	548	5	0.9	367	301	45.06	45.06	Somatic	0.000	168	139	45.28	45.28	Somatic	0.000	1	
610184	X	32,817,038	G	A	DMD	3	intronic	462	14	2.94	322	196	37.84	37.84	Somatic	0.000	244	195	44.42	44.42	Somatic	0.000	1	
610184	X	34,904,152	C	T	FAM47B	3	3_prime_flanking_region	650	1	0.15	397	297	42.8	42.8	Somatic	0.000	297	215	41.99	41.99	Somatic	0.000	1	
610184	X	36,468,897	A	G	ENSG00000221729	2	5_prime_flanking_region	665	14	2.06	563	415	42.43	42.43	Somatic	0.000	165	117	41.49	41.49	Somatic	0.000	1	
610184	X	55,185,327	G	A	LOC100129876	3	5_prime_flanking_region	1218	5	0.41	541	283	34.34	34.34	Somatic	0.000	493	311	38.68	38.68	Somatic	0.000	0	
610184	X	68,420,653	G	A		0	3	0	1002	10	0.99	97	78	44.57	44.57	Somatic	0.000	245	195	44.32	44.32	Somatic	0.000	1
610184	X	81,605,277	A	T	ENSG00000216941	3	3_prime_flanking_region	808	2	0.25	1154	13	1.11	1.11	Somatic	0.022	333	135	28.85	28.85	Somatic	0.000	2	
610184	X	81,737,741	A	T	ENSG0000020183	3	3_prime_flanking_region	492	0	0	451	17	3.63	3.63	Somatic	0.000	189	77	28.95	28.95	Somatic	0.000	2	
610184	X	82,447,961	G	C		0	3	0	760	12	1.55	334	267	44.43	44.43	Somatic	0.000	212	172	44.79	44.79	Somatic	0.000	1
610184	X	83,995,712	T	C	RPS6KA6	2	intronic	538	0	0	300	12	3.85	3.85	Somatic	0.000	229	100	30.4	30.4	Somatic	0.000	2	
610184	X	97,079,306	A	C	ENSG00000216674	3	3_prime_flanking_region	415	3	0.72	305	174	36.33	36.33	Somatic	0.000	210	147	41.18	41.18	Somatic	0.000	1	
610184	X	103,783,589	T	G	IL1RAPL2	3	intronic	1273	1	0.08	897	17	1.86	1.86	Somatic	0.000	406	174	30	30	Somatic	0.000	2	
610184	X	105,790,418	C	T	CXorf57	2	intronic	422	3	0.71	325	254	43.87	43.87	Somatic	0.000	237	206	46.5	46.5	Somatic	0.000	1	
610184	X	114,541,805	C	T	ENSG00000220726	3	3_prime_flanking_region	1829	37	1.98	863	732	45.89	45.89	Somatic	0.000	285	217	43.23	43.23	Somatic	0.000	1	
610184	X	125,411,218	G	T	ENSG00000219537	3	5_prime_flanking_region	527	4	0.75	444	308	40.96	40.96	Somatic	0.000	279	252	47.46	47.46	Somatic	0.000	1	
610184	X	127,770,554	C	G	ENSG00000220383	3	3_prime_flanking_region	660	16	2.37	430	311	41.97	41.97	Somatic	0.000	254	208	45.02	45.02	Somatic	0.000	1	
610184	X	128,110,491	G	A		0	3	0	1774	6	0.34	820	504	38.07	38.07	Somatic	0.000	490	298	37.82	37.82	Somatic	0.000	1
610184	X	128,409,936	A	G	SMARCA1	2	intronic	548	5	0.9	339	271	44.43	44.43	Somatic	0.000	207	178	46.23	46.23	Somatic	0.000	1	
610184	X	131,898,672	C	A	USP26	1	missense	933	5	0.53	749	4	0.53	0.53	Reference	0.628	414	24	5.48	5.48	Somatic	0.000	0	
610184	X	137,649,606	C	T	FGF13	3	intronic	455	0	0	595	7	1.16	1.16	Somatic	0.019	248	109	30.53	30.53	Somatic	0.000	2	
610184	X	139,695,732	T	C	CDR1	3	5_prime_flanking_region	259	5	1.89	250	215	46.24	46.24	Somatic	0.000	358	244	40.53	40.53	Somatic	0.000	1	
610184	X	140,096,209	G	C	LDOC1	3	3_prime_flanking_region	514	13	2.47	185	136	42.37	42.37	Somatic	0.000	281	205	42.18	42.18	Somatic	0.000	1	
610184	X	141,838,696	C	T	ENSG00000208499	3	5_prime_flanking_region	913	15	1.62	542	417	43.48	43.48	Somatic	0.000	416	322	43.63	43.63	Somatic	0.000	1	
610184	X	151,086,788	A	T	GABRA3	3	3_prime_untranslated_region	1032	0	0	400	8	1.96	1.96	Somatic	0.000	318	145	31.32	31.32	Somatic	0.000	2	
182896	1	3,608,395	C	T	TP73	3	intronic	24	0	0	13	0	0	0	Reference	1.000	19	17	47.22	47.22	Somatic	0.000	0	
182896	1	4,310,466	G	A		0	3	0	200	21	9.5	114	73	39.04	39.04	Somatic	0.000	151	88	36.82	36.82	Somatic	0.000	1
182896	1	4,315,904	C	A		0	3	0	168	2	1.18	155	2	1.27	1.27	Reference	0.658	208	73	25.98	25.98	Somatic	0.000	2
182896	1	13,740,415	G	A	PDPN	3	5_prime_flanking_region	258	21	7.53	171	108	38.71	38.71	Somatic	0.000	137	90	39.65	39.65	Somatic	0.000	1	
182896	1	13,888,865	C	T	PRDM2	3	5_prime_flanking_region	183	8	4.19	104	56	35	35	Somatic	0.000	99	45	31.25	31.25	Somatic	0.000	1	
182896	1	14,380,746	A	T	LOC732215	3	5_prime_flanking_region	639	32	4.77	256	136	34.69	34.69	Somatic	0.000	221	131	37.22	37.22	Somatic	0.000	1	
182896	1	16,955,010	C	G	MSTP9	1	ma	308	22	6.67	216	6	2.7	2.7	Somatic	0.991	287	46	13.81	13.81	Somatic	0.002	0	
182896	1	20,541,817	C	T	VWA5B1	2	intronic	130	4															

182896	1	207,684,185	T	C	LOC642587	3	_3_prime_flanking_region	502	0	0	880	0	0	0	Reference	1,000	555	210	27.45	27.45	Somatic	0.000	2		
182896	1	208,539,968	C	A	LOC100131961	3	intronic	247	12	4.63	269	146	35.18	35.18	Somatic	0.000	270	143	34.62	34.62	Somatic	0.000	1		
182896	1	212,168,703	C	T	PTPN14	1	missense	0	3	447	0	0	498	0	0	0	Reference	1,000	231	72	23.76	23.76	Somatic	0.000	2
182896	1	212,617,972	G	A	LOC643454	1	rna	399	0	0	325	1	0.31	0.31	Reference	0.450	210	76	26.57	26.57	Somatic	0.000	2		
182896	1	212,722,877	A	G	CENPF	3	_3_prime_flanking_region	518	28	5.13	218	7	3.11	3.11	Somatic	0.926	260	41	13.62	13.62	Somatic	0.000	0		
182896	1	212,935,653	G	A	LOC643454	0	3	446	1	0.22	369	0	0	0	Reference	0.548	231	73	24.01	24.01	Somatic	0.000	2		
182896	1	213,700,878	C	A	USH2A	0	3	intronic	0	314	0	0	397	0	0	0	Reference	1,000	156	72	31.58	31.58	Somatic	0.000	2
182896	1	214,247,276	A	T	ESRRG	2	intronic	270	8	2.88	332	167	33.47	33.47	Somatic	0.000	254	124	32.8	32.8	Somatic	0.000	1		
182896	1	215,221,653	C	A	ENSG00000208186	3	_5_prime_flanking_region	191	8	4.02	111	54	32.73	32.73	Somatic	0.000	149	58	28.02	28.02	Somatic	0.000	1		
182896	1	217,955,271	G	T	ENSG00000208186	3	_5_prime_flanking_region	281	0	0	337	31	8.42	8.42	Somatic	0.000	245	17	6.49	6.49	Somatic	0.000	0		
182896	1	217,981,116	C	T	ENSG00000208186	2	_5_prime_flanking_region	805	1	0.12	1292	1	0.08	0.08	Reference	0.853	712	240	25.21	25.21	Somatic	0.000	2		
182896	1	219,929,587	C	T	DUSP10	2	_3_prime_flanking_region	257	14	5.17	159	109	40.67	40.67	Somatic	0.000	154	103	40.08	40.08	Somatic	0.000	1		
182896	1	221,629,066	G	A	C1orf65	3	_5_prime_flanking_region	480	0	0	476	0	0	0	Reference	1,000	350	103	22.74	22.74	Somatic	0.000	2		
182896	1	225,308,771	A	T	CD42BPA	2	intronic	373	3	0.8	690	3	0.43	0.43	Somatic	0.881	394	155	28.23	28.23	Somatic	0.000	0		
182896	1	234,804,038	T	A	HEATR1	3	intronic	345	26	7.01	383	198	34.08	34.08	Somatic	0.000	200	96	32.43	32.43	Somatic	0.000	1		
182896	1	236,610,541	G	A	ENSG00000215807	0	3	intronic	0	509	0	0	552	1	0.18	0.18	Reference	0.521	256	110	30.05	30.05	Somatic	0.000	2
182896	1	236,767,762	G	A	ENSG00000215807	3	_3_prime_flanking_region	270	0	0	422	2	0.47	0.47	Reference	0.373	261	95	26.69	26.69	Somatic	0.000	2		
182896	1	238,877,133	A	T	GREM2	3	_5_prime_flanking_region	643	28	4.17	503	258	33.9	33.9	Somatic	0.000	379	219	36.62	36.62	Somatic	0.000	1		
182896	1	242,027,750	A	T	AKT3	3	intronic	406	0	0	626	0	0	0	Reference	1,000	317	109	25.59	25.59	Somatic	0.000	2		
182896	2	10,865	T	A	LOC730658	1	missense	166	0	0	48	0	0	0	Reference	1,000	18	9	33.33	33.33	Somatic	0.000	2		
182896	2	895,903	G	T	LOC391343	1	missense	270	21	7.22	355	60	14.46	14.46	Somatic	0.002	297	56	15.86	15.86	Somatic	0.000	0		
182896	2	2,843,679	T	A	MEFV	0	3	intronic	0	780	27	3.35	181	71	28.17	28.17	Somatic	0.000	342	140	29.05	29.05	Somatic	0.000	1
182896	2	4,452,541	A	G	ENSG00000216435	3	_5_prime_flanking_region	270	1	0.37	497	0	0	0	Reference	0.353	227	69	23.31	23.31	Somatic	0.000	2		
182896	2	4,866,662	C	T	ENSG00000210527	3	_5_prime_flanking_region	456	20	4.2	232	137	37.13	37.13	Somatic	0.000	239	100	29.5	29.5	Somatic	0.000	1		
182896	2	5,728,184	T	A	SOX11	3	_5_prime_flanking_region	1009	1	0.1	321	1	0.31	0.31	Reference	0.425	286	85	22.91	22.91	Somatic	0.000	2		
182896	2	13,669,958	T	A	DDX1	3	_5_prime_flanking_region	895	49	5.19	294	200	40.49	40.49	Somatic	0.000	287	130	31.18	31.18	Somatic	0.000	1		
182896	2	15,627,775	G	A	REV1L	0	3	intronic	0	582	1	0.17	620	0	0	0	Reference	0.485	386	119	23.56	23.56	Somatic	0.000	2
182896	2	18,826,907	A	C	ACOXL	3	intronic	0	602	0	0	872	1	0.11	0.11	Reference	0.592	450	174	27.88	27.88	Somatic	0.000	2	
182896	2	35,712,743	C	T	SLC8A1	0	3	intronic	0	483	26	5.11	286	210	42.34	42.34	Somatic	0.000	243	130	34.85	34.85	Somatic	0.000	0
182896	2	40,518,776	G	A	ENSG00000216435	3	_5_prime_flanking_region	690	2	0.29	476	47	8.99	8.99	Somatic	0.000	328	20	5.75	5.75	Somatic	0.000	0		
182896	2	41,537,689	C	A	ENSG00000216435	0	3	intronic	0	274	0	0	605	0	0	0	Reference	1,000	404	138	25.46	25.46	Somatic	0.000	2
182896	2	43,621,331	T	C	THADA	2	intronic	334	0	0	532	0	0	0	Reference	1,000	267	82	23.5	23.5	Somatic	0.000	2		
182896	2	44,492,788	A	G	C2orf34	3	intronic	309	0	0	367	1	0.27	0.27	Reference	0.544	269	96	26.3	26.3	Somatic	0.000	2		
182896	2	45,686,172	A	T	SRBD1	3	intronic	420	14	3.23	232	88	27.5	27.5	Somatic	0.000	247	83	25.15	25.15	Somatic	0.000	1		
182896	2	53,151,694	C	A	LOC644265	0	2	intronic	0	301	1	0.33	294	0	0	0	Reference	0.507	95	18	15.93	15.93	Somatic	0.000	2
182896	2	66,660,388	C	G	MEFV	3	_3_prime_flanking_region	319	1	0.31	195	0	0	0	Reference	0.621	145	63	30.29	30.29	Somatic	0.000	2		
182896	2	71,936,691	G	A	ENSG00000221707	0	3	intronic	0	394	20	4.83	121	50	29.24	29.24	Somatic	0.000	200	97	32.66	32.66	Somatic	0.000	1
182896	2	75,545,249	G	A	ENSG00000208916	3	_5_prime_flanking_region	545	28	4.89	435	209	32.45	32.45	Somatic	0.000	393	186	32.12	32.12	Somatic	0.000	1		
182896	2	77,147,306	C	T	LRRTM4	3	intronic	266	1	0.37	372	0	0	0	Reference	0.418	220	84	27.63	27.63	Somatic	0.000	2		
182896	2	77,310,748	C	T	LRRTM4	3	intronic	273	1	0.36	318	0	0	0	Reference	0.463	207	82	28.37	28.37	Somatic	0.000	2		
182896	2	78,081,336	G	A	CTNNA2	0	2	intronic	0	173	0	0	193	0	0	0	Reference	1,000	77	23	23	23	Somatic	0.000	2
182896	2	79,358,690	A	T	CTNNA2	3	intronic	292	6	2.01	224	124	35.63	35.63	Somatic	0.000	283	146	34.03	34.03	Somatic	0.000	1		
182896	2	79,659,978	C	T	CTNNA2	3	intronic	459	31	6.33	389	253	39.41	39.41	Somatic	0.000	388	215	35.66	35.66	Somatic	0.000	1		
182896	2	81,165,798	C	A	GLU2	3	intronic	553	2	0.36	245	0	0	0	Reference	0.636	398	113	22.11	22.11	Somatic	0.000	0		
182896	2	81,929,690	G	A	ENSG00000221707	2	_3_prime_flanking_region	193	13	6.31	458	253	35.58	35.58	Somatic	0.000	391	173	30.67	30.67	Somatic	0.000	1		
182896	2	83,652,475	G	A	ENSG00000221707	0	3	intronic	0	272	18	6.21	151	91	37.6	37.6	Somatic	0.000	154	100	39.37	39.37	Somatic	0.000	1
182896	2	86,264,194	T	C	IMMT	3	intronic	249	18	6.74	98	67	40.61	40.61	Somatic	0.000	51	41	44.57	44.57	Somatic	0.000	0		
182896	2	97,619,228	G	T	COX5B	3	_5_prime_flanking_region	321	16	4.75	123	68	35.6	35.6	Somatic	0.000	134	56	29.47	29.47	Somatic	0.000	1		
182896	2	103,595,218	T	G	ACOXL	0	2	intronic	0	304	10	3.18	141	46	24.6	24.6	Somatic	0.000	137	62	31.16	31.16	Somatic	0.000	2
182896	2	104,186,506	C	T	LOC391453	3	intronic	553	2	0.36	245	0	0	0	Reference	0.481	303	113	27.16	27.16	Somatic	0.000	2		
182896	2	105,903,794	C	A	LOC100128547	2	_5_prime_flanking_region	665	0	0	552	0	0	0	Reference	1,000	374	138	26.95	26.95	Somatic	0.000	2		
182896	2	111,188,541	C	A	BUB1	3	_5_prime_flanking_region	456	5	1.08	447	6	1.32	1.32	Somatic	0.488	281	77	21.51	21.51	Somatic	0.000	0		
182896	2	111,242,960	G	A	ACOXL	3	intronic	275	16	5.5	206	101	32.9	32.9	Somatic	0.000	135	79	36.92	36.92	Somatic	0.000	1		
182896	2	117,561,233	G	A	LOC644265	0	2	intronic	0	304	10	3.18	141	46	24.6	24.6	Somatic	0.000	137	62	31.16	31.16	Somatic	0.000	1
182896	2	117,854,924	C	G	REV1L	3	intronic	683	22	3.12	65														

182896	2	239,034,090	C	G	ASB1	3	3_prime_flanking_region	432	21	4.64	293	186	38.83	38.83	Somatic	0.000	360	173	32.46	32.46	Somatic	0.000	1			
182896	2	239,256,985	G	A	SETD5	0	3	2	intronic	0	290	0	0	207	1	0.48	0.48	Reference	0.418	133	55	29.26	29.26	Somatic	0.000	2
182896	3	9,466,444	T	A	SETD5	0	3	2	intronic	0	165	10	5.71	198	110	35.71	35.71	Somatic	0.000	247	87	26.05	34.13	Somatic	0.000	1
182896	3	18,664,330	T	C	EFHB	3	3_prime_flanking_region	731	1	0.14	972	0	0	0	0	0	Reference	0.430	614	373	37.79	24.75	Somatic	0.000	2	
182896	3	19,895,907	G	A	EFHB	3	3_prime_flanking_region	340	0	0	494	1	0.2	0.2	0.2	0.2	Reference	0.593	346	254	42.33	27.73	Somatic	0.000	2	
182896	3	21,824,464	T	G	ENSG0000021384	3	5_prime_flanking_region	270	0	0	396	0	0	0	0	0	Reference	1.000	328	80	19.61	25.69	Somatic	0.000	2	
182896	3	23,079,810	C	T	EFHB	0	3	2	intronic	0	347	13	3.61	358	163	31.29	31.29	Somatic	0.000	306	289	48.57	31.81	Somatic	0.000	1
182896	3	26,741,896	G	A	LRRC3B	3	3_prime_flanking_region	517	14	2.64	346	176	33.72	33.72	Somatic	0.000	263	222	45.77	29.98	Somatic	0.000	1			
182896	3	30,146,851	G	A	TRAIP	3	5_prime_flanking_region	501	22	4.21	332	93	21.88	21.88	Somatic	0.000	350	94	21.17	27.73	Somatic	0.000	1			
182896	3	30,457,100	G	A	TRAIP	0	3	2	intronic	0	324	0	0	428	0	0	0	Reference	1.000	287	96	25.07	32.84	Somatic	0.000	2
182896	3	30,942,282	G	T	TRAIP	0	3	2	intronic	0	523	1	0.19	839	1	0.12	0.12	Reference	0.853	608	143	19.04	24.94	Somatic	0.000	2
182896	3	34,965,892	C	T	ROBO2	3	3_prime_flanking_region	787	31	3.79	624	212	25.36	25.36	Somatic	0.000	686	158	18.72	24.52	Somatic	0.000	1			
182896	3	36,033,406	G	A	ROBO2	0	2	2	intronic	0	229	6	2.55	345	140	28.87	28.87	Somatic	0.000	445	144	24.45	32.03	Somatic	0.000	1
182896	3	49,894,570	A	G	TRAIP	3	5_prime_flanking_region	111	3	2.63	21	13	38.24	38.24	Somatic	0.000	126	65	34.03	22.29	Somatic	0.000	0			
182896	3	54,753,433	A	C	CACNA2D3	3	intronic	305	10	3.17	366	208	36.24	36.24	Somatic	0.000	316	251	44.27	29	Somatic	0.000	1			
182896	3	55,342,551	T	G	FOXP1	0	3	2	intronic	0	312	0	0	316	1	0.32	0.32	Reference	0.504	283	176	38.34	25.11	Somatic	0.000	2
182896	3	71,223,522	T	A	FOXP1	2	intronic	482	19	3.79	271	175	39.24	39.24	Somatic	0.000	204	169	45.31	29.68	Somatic	0.000	1			
182896	3	74,420,754	G	A	CNTN3	2	intronic	448	15	3.24	888	343	27.86	27.86	Somatic	0.000	642	434	40.33	26.42	Somatic	0.000	1			
182896	3	77,781,973	C	G	ROBO2	3	3_prime_flanking_region	405	0	0	545	0	0	0	0	0	Reference	1.000	265	169	38.94	25.51	Somatic	0.000	2	
182896	3	78,144,737	C	A	ROBO2	0	3	2	intronic	0	697	2	0.29	655	1	0.15	0.15	Reference	0.863	504	105	17.24	22.58	Somatic	0.000	2
182896	3	78,342,405	G	A	ENSG0000022574	3	3_prime_flanking_region	217	1	0.46	268	0	0	0	0	0	Reference	0.449	135	99	42.31	27.71	Somatic	0.000	2	
182896	3	80,295,156	C	T	ENSG0000022574	0	3	2	intronic	0	243	14	5.45	293	165	36.03	36.03	Somatic	0.000	360	114	24.05	31.51	Somatic	0.000	1
182896	3	80,822,059	C	G	ARL6	0	3	2	intronic	0	183	0	0	413	1	0.24	0.24	Reference	0.693	247	42	14.53	19.03	Somatic	0.000	2
182896	3	81,410,485	A	G	CADM2	3	intronic	555	0	0	741	1	0.13	0.13	0	0	Reference	1.000	167	40	19.32	25.31	Somatic	0.000	2	
182896	3	82,705,783	G	A	CADM2	0	3	2	intronic	0	262	0	0	194	0	0	0	Reference	1.000	167	40	19.32	25.31	Somatic	0.000	2
182896	3	85,634,053	A	G	ENSG00000212026	3	3_prime_flanking_region	194	0	0	347	1	0.29	0.29	0.29	0.29	Reference	0.642	207	147	41.53	27.2	Somatic	0.000	2	
182896	3	104,113,956	T	A	EPHA3	3	3_prime_flanking_region	336	1	0.3	304	0	0	0	0	0	Reference	0.526	291	189	39.38	25.79	Somatic	0.000	2	
182896	3	117,793,355	T	G	SEMA5B	3	intronic	464	1	0.22	563	0	0	0	0	0	Reference	0.452	293	210	41.75	27.35	Somatic	0.000	2	
182896	3	136,853,771	G	T	SEMA5B	0	3	2	intronic	0	419	20	4.56	437	241	35.55	35.55	Somatic	0.000	300	251	45.55	29.84	Somatic	0.000	1
182896	3	139,022,092	G	A	PPM1L	3	3_prime_flanking_region	590	24	3.91	332	187	36.03	36.03	Somatic	0.000	406	133	24.68	32.33	Somatic	0.000	1			
182896	3	150,022,307	G	A	CPA3	3	5_prime_flanking_region	206	11	5.07	138	81	36.99	36.99	Somatic	0.000	160	45	21.95	28.75	Somatic	0.000	1			
182896	3	157,906,266	A	C	TIPARP	3	3_prime untranslated_region	207	0	0	351	0	0	0	0	0	Reference	1.000	161	143	47.04	30.81	Somatic	0.000	2	
182896	3	160,435,746	A	C	IQCJ	2	intronic	469	0	0	237	0	0	0	0	0	Reference	1.000	136	86	38.74	25.37	Somatic	0.000	2	
182896	3	160,908,509	C	A	SCHIP1	3	intronic	275	0	0	340	0	0	0	0	0	Reference	1.000	255	198	43.71	28.63	Somatic	0.000	2	
182896	3	162,046,788	A	G	PPM1L	3	intronic	323	0	0	937	2	0.21	0.21	0.21	0.21	Reference	0.553	443	288	39.4	25.81	Somatic	0.000	2	
182896	3	163,411,091	A	G	PPM1L	0	3	2	intronic	0	253	0	0	471	0	0	0	Reference	1.000	292	97	24.94	32.67	Somatic	0.000	2
182896	3	164,224,329	C	A	PPM1L	0	3	2	intronic	0	243	1	0.41	386	0	0	0	Reference	0.387	274	56	16.97	22.23	Somatic	0.000	2
182896	3	165,074,030	G	T	SLC2A2	3	3_prime_flanking_region	160	9	5.33	192	87	31.18	31.18	Somatic	0.000	116	74	38.95	25.51	Somatic	0.000	1			
182896	3	165,105,458	T	G	ZMAT3	3	3_prime_flanking_region	259	18	6.5	618	378	37.95	37.95	Somatic	0.000	435	312	41.77	27.36	Somatic	0.000	1			
182896	3	165,775,139	G	A	ZMAT3	3	intronic	251	18	6.69	393	205	34.28	34.28	Somatic	0.000	286	90	23.94	31.36	Somatic	0.000	1			
182896	3	165,917,629	C	A	TP63	3	intronic	334	0	0	455	1	0.22	0.22	0.22	0.22	Reference	0.577	366	72	16.44	21.54	Somatic	0.000	2	
182896	3	166,505,038	T	G	TP63	3	intronic	221	6	2.64	240	6	2.44	2.44	Somatic	0.668	255	22	7.94	10.4	Somatic	0.007	0			
182896	3	171,926,796	A	G	LEPRE1	3	5_prime_flanking_region	1562	2	0.13	2326	1	0.04	0.04	0.04	0.04	Reference	0.935	1467	353	19.4	25.41	Somatic	0.000	2	
182896	3	172,259,582	T	C	KLB	3	5_prime_flanking_region	624	34	5.17	616	331	34.95	34.95	Somatic	0.000	688	218	24.06	31.52	Somatic	0.000	1			
182896	3	174,049,745	T	C	ECT2	3	3_prime_flanking_region	614	0	0	336	0	0	0	0	0	Reference	1.000	210	125	37.31	24.44	Somatic	0.000	2	
182896	3	180,277,201	G	A	ZMAT3	3	3_prime_flanking_region	499	0	0	381	0	0	0	0	0	Reference	1.000	290	67	18.77	24.59	Somatic	0.000	2	
182896	3	181,155,740	G	T	PEXSL	3	intronic	398	14	3.4	243	86	26.14	26.14	Somatic	0.000	353	105	22.93	30.04	Somatic	0.000	1			
182896	3	181,319,287	C	A	ENSG00000201822	3	3_prime_flanking_region	304	15	4.7	298	123	29.22	29.22	Somatic	0.000	232	213	47.87	31.35	Somatic	0.000	1			
182896	3	190,840,509	C	A	TP63	3	intronic	263	0	0	328	1	0.3	0.3	0.3	0.3	Reference	0.556	120	81	40.3	26.4	Somatic	0.000	2	
182896	3	191,334,798	C	A	LEPRE1	3	5_prime_flanking_region	310	16	4.91	409	168	29.12	29.12	Somatic	0.000	306	102	25	25	Somatic	0.000	1			
182896	4	32,767,127	C	G	CHIC2	0	3	2	intronic	0	425	0	0	730	0	0	0	Reference	1.000	451	131	22.51	22.51	Somatic	0.000	2
182896	4	35,568,788	T	A	CHIC2	0	3	2	intronic	0	683	0	0	479	1	0.21	0.21	Reference	0.413	317	101	24.16	24.16	Somatic	0.000	2
182896	4	39,112,595	C	T	KLB	1	missense	523	37	6.61	264	129	32.82	32.82	Somatic	0.000	273	174	38.93	38.93	Somatic	0.000	1			

182896	4	125,329,704	G	A	0	3	5_prime_flanking_region	0	252	12	4.55	329	142	30.15	30.15	Somatic	0.000	211	77	26.74	26.74	Somatic	0.000	1	
182896	4	128,754,147	T	A	INTU	0	3	5_prime_flanking_region	0	483	0	0	306	0	0	0	Reference	1.000	136	37	21.39	21.39	Somatic	0.000	2
182896	4	130,381,378	G	A	0	3	5_prime_flanking_region	0	145	1	0.68	106	0	0	0	0	Reference	0.579	117	42	26.42	26.42	Somatic	0.000	2
182896	4	130,853,146	G	A	0	3	5_prime_flanking_region	0	220	5	2.22	229	110	32.45	32.45	Somatic	0.000	174	107	38.08	38.08	Somatic	0.000	1	
182896	4	131,251,984	C	A	0	3	5_prime_flanking_region	0	592	1	0.17	530	0	0	0	0	Reference	0.528	322	104	24.41	24.41	Somatic	0.000	2
182896	4	131,576,404	T	C	0	2	5_prime_flanking_region	0	320	0	0	524	0	0	0	0	Reference	1.000	295	111	27.34	27.34	Somatic	0.000	2
182896	4	132,302,401	T	A	0	3	5_prime_flanking_region	0	260	10	3.7	151	86	36.29	36.29	Somatic	0.000	168	93	35.63	35.63	Somatic	0.000	1	
182896	4	135,589,416	A	T	0	3	5_prime_flanking_region	0	204	0	0	625	1	0.16	0.16	Reference	0.754	242	110	31.25	31.25	Somatic	0.000	2	
182896	4	137,205,220	C	A	0	3	5_prime_flanking_region	0	190	0	0	135	0	0	0	0	Reference	1.000	40	12	23.08	23.08	Somatic	0.000	2
182896	4	138,173,577	T	C	LOC729578	0	3	intronic	0	210	0	0	193	0	0	0	Reference	1.000	161	53	24.77	24.77	Somatic	0.000	2
182896	4	145,495,859	A	G	0	3	5_prime_flanking_region	0	786	35	4.26	350	174	33.21	33.21	Somatic	0.000	310	126	28.9	28.9	Somatic	0.000	1	
182896	4	155,353,482	C	T	DCHS2	2	3_prime_flanking_region	422	18	4.09	508	149	22.68	22.68	Somatic	0.000	424	194	31.39	31.39	Somatic	0.000	1		
182896	4	155,433,216	C	T	DCHS2	3	intronic	612	21	3.32	808	237	22.68	22.68	Somatic	0.000	601	215	26.35	26.35	Somatic	0.000	1		
182896	4	157,940,915	T	A	PDGF	3	intronic	211	10	4.52	202	82	28.87	28.87	Somatic	0.000	142	74	34.26	34.26	Somatic	0.000	1		
182896	4	159,671,628	A	C	RXFP1	3	intronic	453	9	1.95	307	201	39.57	39.57	Somatic	0.000	266	111	29.44	29.44	Somatic	0.000	1		
182896	4	159,685,051	A	T	RXFP1	3	intronic	310	30	8.82	197	37	15.81	15.81	Somatic	0.008	50	18	26.47	26.47	Somatic	0.000	0		
182896	4	161,518,259	C	T	0	3	5_prime_flanking_region	0	320	16	4.76	268	100	27.17	27.17	Somatic	0.000	296	120	28.85	28.85	Somatic	0.000	1	
182896	4	162,238,005	C	A	0	3	5_prime_flanking_region	0	155	4	2.52	327	72	18.05	18.05	Somatic	0.000	163	33	16.84	16.84	Somatic	0.000	0	
182896	4	169,791,879	T	C	PALLD	3	intronic	387	11	2.76	213	101	32.17	32.17	Somatic	0.000	252	115	31.34	31.34	Somatic	0.000	1		
182896	4	170,902,806	C	T	C4orf27	3	intronic	115	0	0	353	0	0	0	0	Reference	1.000	251	82	24.62	24.62	Somatic	0.000	2	
182896	4	171,573,382	C	T	0	3	5_prime_flanking_region	0	297	22	6.9	271	153	36.08	36.08	Somatic	0.000	206	100	32.68	32.68	Somatic	0.000	1	
182896	4	172,915,378	G	A	0	3	5_prime_flanking_region	0	349	0	0	742	1	0.13	0.13	Reference	0.680	375	116	23.63	23.63	Somatic	0.000	2	
182896	4	175,086,093	C	T	0	3	5_prime_flanking_region	0	153	3	1.92	58	29	33.33	33.33	Somatic	0.000	38	16	29.63	29.63	Somatic	0.000	1	
182896	4	175,834,876	C	A	GLRA3	1	missense	385	17	4.23	208	130	38.46	38.46	Somatic	0.000	161	80	33.32	33.32	Somatic	0.000	1		
182896	4	180,285,636	G	A	0	2	5_prime_flanking_region	0	207	8	3.72	327	92	21.96	21.96	Somatic	0.000	232	88	27.75	27.75	Somatic	0.000	1	
182896	4	183,007,067	T	C	LOC728191	3	5_prime_flanking_region	548	29	5.03	353	187	34.63	34.63	Somatic	0.000	279	122	30.42	30.42	Somatic	0.000	1		
182896	4	183,145,897	C	T	ZFP42	3	5_prime_flanking_region	282	0	0	390	0	0	0	0	Reference	1.000	174	60	25.64	25.64	Somatic	0.000	2	
182896	5	189,124,373	T	A	0	3	5_prime_flanking_region	0	858	0	0	711	0	0	0	0	Reference	1.000	396	138	25.84	25.84	Somatic	0.000	2
182896	5	192,036	G	T	LOC731559	3	5_prime_flanking_region	59	0	0	76	0	0	0	0	Reference	1.000	89	31	25.83	25.83	Somatic	0.000	2	
182896	5	4,066,109	G	T	0	3	5_prime_flanking_region	0	198	5	2.46	159	52	24.64	24.64	Somatic	0.000	110	29	20.86	20.86	Somatic	0.000	0	
182896	5	4,632,143	C	A	0	3	5_prime_flanking_region	0	379	13	3.32	404	236	36.88	36.88	Somatic	0.000	261	112	30.03	30.03	Somatic	0.000	1	
182896	5	4,853,603	A	T	LOC730926	3	5_prime_flanking_region	332	0	0	393	0	0	0	0	Reference	1.000	381	129	25.29	25.29	Somatic	0.000	2	
182896	5	5,16,316,007	G	A	0	3	5_prime_flanking_region	0	478	0	0	830	0	0	0	0	Reference	1.000	433	139	24.3	24.3	Somatic	0.000	2
182896	5	5,21,060,964	T	C	0	2	5_prime_flanking_region	0	259	6	2.26	132	47	26.26	26.26	Somatic	0.000	129	71	35.5	35.5	Somatic	0.000	1	
182896	5	5,22,427,391	G	T	CDH12	3	intronic	329	16	4.64	220	62	21.99	21.99	Somatic	0.000	140	50	26.32	26.32	Somatic	0.000	1		
182896	5	5,29,980,087	C	A	0	2	5_prime_flanking_region	0	188	0	0	90	0	0	0	0	Reference	1.000	47	4	7.84	7.84	Somatic	0.002	0
182896	5	5,45,832,719	C	G	CDH10	3	intronic	509	23	4.32	541	256	32.12	32.12	Somatic	0.000	295	151	33.86	33.86	Somatic	0.000	1		
182896	5	5,74,469,167	C	T	LIFR	3	3_prime_flanking_region	433	13	2.91	239	97	28.87	28.87	Somatic	0.000	166	93	35.91	35.91	Somatic	0.000	1		
182896	5	5,85,507,797	G	T	0	3	5_prime_flanking_region	271	19	6.55	146	89	37.87	37.87	Somatic	0.000	244	122	33.33	33.33	Somatic	0.000	1		
182896	5	5,87,788,524	C	T	0	3	5_prime_flanking_region	0	810	2	0.25	828	0	0	0	0	Reference	0.245	443	157	26.17	26.17	Somatic	0.000	2
182896	5	5,91,79,962	T	C	FYB	3	intronic	553	18	3.15	307	172	35.91	35.91	Somatic	0.000	284	158	35.75	35.75	Somatic	0.000	1		
182896	5	5,98,886,600	A	G	LOC100134241	2	3_prime_flanking_region	343	16	4.46	408	212	34.19	34.19	Somatic	0.000	218	139	38.94	38.94	Somatic	0.000	1		
182896	5	5,44,166,341	G	A	0	3	5_prime_flanking_region	0	350	18	4.89	585	320	35.36	35.36	Somatic	0.000	455	208	31.37	31.37	Somatic	0.000	1	
182896	5	5,51,940,227	C	T	0	3	5_prime_flanking_region	0	457	21	4.39	264	102	27.87	27.87	Somatic	0.000	263	121	31.51	31.51	Somatic	0.000	1	
182896	5	5,57,261,910	C	T	57,261,910	0	2	5_prime_flanking_region	0	550	1	0.18	761	1	0.13	0.13	Reference	0.824	504	186	26.96	26.96	Somatic	0.000	2
182896	5	5,59,311,555	A	G	PDE4D	3	intronic	136	0	0	128	0	0	0	0	Reference	1.000	93	36	27.91	27.91	Somatic	0.000	2	
182896	5	5,60,167,740	C	T	ELOVL7	3	intronic	248	14	5.34	148	19	11.38	11.38	Somatic	0.019	64	11	14.67	14.67	Somatic	0.010	0		
182896	5	5,65,507,096	C	T	MAST4	3	3_prime_flanking_region	685	1	0.15	401	0	0	0	0	Reference	0.631	293	89	23.3	23.3	Somatic	0.000	2	
182896	5	5,71,600,979	A	C	MRPS27	3	intronic	286	0	0	543	0	0	0	0	Reference	1.000	297	103	25.75	25.75	Somatic	0.000	2	
182896	5	5,82,268,822	G	A	0	2	5_prime_flanking_region	0	256	17	6.23	312	130	29.41	29.41	Somatic	0.000	283	77	21.39	21.39	Somatic	0.000	1	
182896	5	5,85,891,804	A	T	0	2	5_prime_flanking_region	0	323	15	4.44	289	191	39.79	39.79	Somatic	0.000	255	124	32.72	32.72	Somatic	0.000	1	
182896	5	5,93,674,531	C	T	uc003kkn.1	3	intronic	169	0	0	166	0	0	0	0	Reference	1.000	71	7	8.97	8.97	Somatic	0.000	0	
182896	5	5,98,643,640	G	A	0	3	5_prime_flanking_region	0	109	5	4.39	56	34	37.78	37.78	Somatic	0.000	45	28	38.36	38.36	Somatic	0.000	1	
182896	5	5,99,415,410	G	C	ENSG00000209024	3	5_prime_flanking_region	231	1	0.25	339	0	0	0	0	Reference	0.850	228	84	26.92	26.92	Somatic	0.00		

182896	6	55,573,298	C	G	HMGCLL1	3	5_prime_flanking_region	155	0	0	213	0	0	0	Reference	1,000	36	7	16.28	16.28	Somatic	0.000	2		
182896	6	62,696,553	C	T	KHDRBS2	3	intronic	518	22	4.07	480	294	37.98	37.98	Somatic	0.000	306	142	31.7	31.7	Somatic	0.000	1		
182896	6	68,858,358	G	A	BAI3	3	intronic	518	22	3.69	447	197	30.59	30.59	Somatic	0.000	346	141	28.95	28.95	Somatic	0.000	1		
182896	6	69,934,793	G	A	RIMS1	3	5_prime_flanking_region	527	0	0	414	0	0	0	Reference	1,000	251	73	22.53	22.53	Somatic	0.000	2		
182896	6	72,613,872	G	A	ENSG00000220291	3	5_prime_flanking_region	394	19	4.6	346	110	24.12	24.12	Somatic	0.000	212	100	32.05	32.05	Somatic	0.000	1		
182896	6	85,946,405	G	T	ENSG00000219867	2	3_prime_flanking_region	273	0	0	403	0	0	0	Reference	1,000	242	74	23.42	23.42	Somatic	0.000	2		
182896	6	89,116,379	G	T	ENSG00000219867	0	3	5_prime_flanking_region	0	354	14	3.8	415	208	33.39	33.39	Somatic	0.000	428	166	27.95	27.95	Somatic	0.000	1
182896	6	92,632,194	A	T	ENSG00000219867	3	5_prime_flanking_region	592	1	0.17	482	0	0	0	Reference	0.552	308	111	26.49	26.49	Somatic	0.000	2		
182896	6	93,066,893	T	C	0	3	intronic	0	177	1	0.56	387	0	0	0	Reference	0.315	263	78	22.87	22.87	Somatic	0.000	2	
182896	6	93,300,595	C	T	0	3	intronic	0	259	13	4.78	189	52	21.58	21.58	Somatic	0.000	98	34	25.76	25.76	Somatic	0.000	1	
182896	6	94,271,933	A	G	0	3	intronic	0	142	10	6.58	180	70	28	28	Somatic	0.000	112	59	34.5	34.5	Somatic	0.000	1	
182896	6	94,898,083	C	T	0	3	intronic	0	129	0	0	214	0	0	0	Reference	1,000	247	92	20	17.86	Somatic	0.000	2	
182896	6	96,454,470	G	C	ENSG00000209248	3	3_prime_flanking_region	454	0	0	472	0	0	0	Reference	1,000	247	92	27.14	27.14	Somatic	0.000	2		
182896	6	104,570,248	T	A	ENSG00000214428	3	3_prime_flanking_region	693	1	0.14	902	0	0	0	Reference	0.435	488	159	24.57	24.57	Somatic	0.000	2		
182896	6	109,552,234	C	T	C6orf182	3	intronic	699	52	6.92	910	443	32.74	32.74	Somatic	0.000	697	296	29.81	29.81	Somatic	0.000	1		
182896	6	114,880,919	C	T	0	3	intronic	0	335	0	0	590	1	0.17	0.17	Reference	0.638	384	134	25.87	25.87	Somatic	0.000	2	
182896	6	123,281,916	C	A	0	3	intronic	0	275	13	4.51	247	126	33.78	33.78	Somatic	0.000	165	73	30.67	30.67	Somatic	0.000	1	
182896	6	123,435,450	G	T	RLBP1L2	3	3_prime_flanking_region	511	0	0	834	0	0	0	Reference	1,000	439	151	25.59	25.59	Somatic	0.000	2		
182896	6	131,693,851	C	T	AKAP7	3	3_prime_flanking_region	425	0	0	597	0	0	0	Reference	1,000	310	115	27.06	27.06	Somatic	0.000	2		
182896	6	134,004,150	G	A	ENSG00000218213	3	3_prime_flanking_region	423	15	3.42	403	145	26.46	26.46	Somatic	0.000	298	113	27.49	27.49	Somatic	0.000	1		
182896	6	144,423,384	C	T	PLAGL1	3	intronic	349	0	0	330	1	0.3	0.3	Reference	0.487	255	81	24.11	24.11	Somatic	0.000	2		
182896	6	145,109,302	T	G	UTRN	3	intronic	175	1	0.57	149	1	0.67	0.67	Reference	0.709	56	13	18.84	18.84	Somatic	0.000	2		
182896	6	148,063,464	C	T	0	3	intronic	0	652	25	3.69	339	169	33.27	33.27	Somatic	0.000	264	126	32.31	32.31	Somatic	0.000	1	
182896	6	149,411,020	A	T	UST	2	intronic	179	5	2.72	28	19	40.43	40.43	Somatic	0.000	67	32	32.32	32.32	Somatic	0.000	2		
182896	6	149,535,107	C	T	0	2	intronic	0	300	1	0.33	330	0	0	0	Reference	0.477	264	80	23.26	23.26	Somatic	0.000	2	
182896	6	160,783,374	T	A	SLC22A3	3	intronic	190	0	0	235	0	0	0	Reference	1,000	157	45	22.28	22.28	Somatic	0.000	2		
182896	6	162,108,640	C	T	PARK2	3	intronic	377	9	2.33	396	165	29.41	29.41	Somatic	0.000	289	134	31.68	31.68	Somatic	0.000	1		
182896	6	164,451,501	C	T	DACT2	1	silent	72	0	0	94	0	0	0	Reference	1,000	77	21	21.43	21.43	Somatic	0.000	2		
182896	6	168,968,642	C	T	0	3	intronic	0	263	0	0	267	0	0	0	Reference	1,000	225	77	25.5	25.5	Somatic	0.000	2	
182896	6	169,849,957	C	T	PHF10	3	3_prime untranslated_region	273	0	0	375	1	0.27	0.27	Reference	0.579	249	63	20.19	20.19	Somatic	0.000	2		
182896	7	8,993,039	A	T	ENSG00000220953	3	3_prime_flanking_region	296	13	4.21	498	178	26.33	26.33	Somatic	0.000	413	146	26.12	26.12	Somatic	0.000	1		
182896	7	12,366,407	T	C	VWDE	3	intronic	250	4	1.57	195	96	32.99	32.99	Somatic	0.000	150	95	38.78	38.78	Somatic	0.000	1		
182896	7	19,472,494	T	C	0	3	intronic	0	189	17	8.25	96	46	32.39	32.39	Somatic	0.000	64	37	36.63	36.63	Somatic	0.000	1	
182896	7	21,697,024	G	A	DNAH11	1	missense	385	0	0	593	0	0	0	Reference	1,000	305	87	22.19	22.19	Somatic	0.000	2		
182896	7	22,370,495	A	C	RAPGEF5	3	5_prime_flanking_region	164	8	4.65	123	29	19.08	19.08	Somatic	0.000	76	34	30.91	30.91	Somatic	0.000	0		
182896	7	25,963,065	C	T	MIRN148A	3	5_prime_flanking_region	402	23	5.41	199	110	35.6	35.6	Somatic	0.000	201	95	32.09	32.09	Somatic	0.000	1		
182896	7	28,206,248	C	T	LOC100128081	2	intronic	657	0	0	575	1	0.17	0.17	Reference	0.467	248	90	26.63	26.63	Somatic	0.000	2		
182896	7	29,188,013	G	T	CPVL	3	intronic	185	7	3.65	67	37	35.58	35.58	Somatic	0.000	96	37	27.82	27.82	Somatic	0.000	1		
182896	7	36,082,361	G	A	PP13004	3	5_prime_flanking_region	161	7	4.17	99	51	34	34	Somatic	0.000	122	62	33.7	33.7	Somatic	0.000	1		
182896	7	46,528,707	C	T	0	3	intronic	0	310	1	0.32	385	0	0	0	Reference	0.447	239	92	27.79	27.79	Somatic	0.000	2	
182896	7	49,539,459	T	A	0	3	intronic	0	419	19	4.34	260	149	36.43	36.43	Somatic	0.000	186	83	30.86	30.86	Somatic	0.000	1	
182896	7	67,686,568	T	A	0	3	intronic	0	1089	0	0	1259	1	0.08	0.08	Reference	0.536	567	235	29.3	29.3	Somatic	0.000	2	
182896	7	70,341,278	G	A	WBSCR17	3	intronic	323	1	0.31	180	1	0.55	0.55	Reference	0.589	166	56	25.23	25.23	Somatic	0.000	2		
182896	7	72,648,712	G	A	MLXIP1	1	missense	112	0	0	39	0	0	0	Reference	1,000	50	21	29.58	29.58	Somatic	0.000	2		
182896	7	81,023,896	A	T	LOC100128317	3	intronic	284	0	0	396	0	0	0	Reference	1,000	233	73	23.86	23.86	Somatic	0.000	2		
182896	7	88,557,258	G	T	ZNF804B	2	intronic	261	0	0	422	0	0	0	Reference	1,000	187	55	22.73	22.73	Somatic	0.000	2		
182896	7	104,666,276	C	T	SRPK2	3	intronic	458	1	0.22	543	0	0	0	Reference	0.458	388	147	27.48	27.48	Somatic	0.000	2		
182896	7	105,304,990	G	A	ATXN7L1	2	intronic	193	0	0	203	1	0.49	0.49	Reference	0.514	123	34	21.66	21.66	Somatic	0.000	2		
182896	7	107,976,074	G	A	NAMP7	3	5_prime_flanking_region	447	0	0	665	0	0	0	Reference	1,000	420	147	25.93	25.93	Somatic	0.000	2		
182896	7	111,923,917	T	G	ENSG00000282965	3	5_prime_flanking_region	564	20	3.42	403	206	33.83	33.83	Somatic	0.000	318	172	35.1	35.1	Somatic	0.000	1		
182896	7	113,522,248	A	T	ENSG00000208686	3	5_prime_flanking_region	548	28	4.86	263	88	25.07	25.07	Somatic	0.000	190	62	24.6	24.6	Somatic	0.000	1		
182896	7	115,236,767	G	A	ENSG000002199224	3	5_prime_flanking_region	277	9	3.15	226	114	33.53	33.53	Somatic	0.000	311	139	30.89	30.89	Somatic	0.000	1		
182896	7	119,086,027	A	G	0	3	intronic	0	489	0	0	414	0	0	0	Reference	1,000	145	45	23.68	23.68	Somatic	0.000	2	
182896	7	120,052,232	A	C	KCND2	3	intronic	386	0	0	457	0	0	0	Reference	1,000	193	84	30.32	30.32	Somatic	0.000	2		
182896	7	123,303,719	A	T	HYAL4	3	intronic	366	0	0	368	0	0	0	Reference	1,000	313	110	26	26	Somatic	0.000	2		
182896	7	123,995,918	A	G	0	3	intronic	0	599	1	0.17	927	1	0.11</td											

182896	8	69,190,828	G	A	PREX2	3	intronic	554	25	4.32	425	146	25.57	25.57	Somatic	0.000	471	213	31.14	31.14	Somatic	0.000	1		
182896	8	71,357,122	G	A	NCOA2	3	intronic	254	0	0	364	0	0	0	Reference	1.000	245	120	32.88	32.88	Somatic	0.000	2		
182896	8	74,242,264	A	T	C8orf84	3	5_prime_flanking_region	150	4	2.6	221	102	31.58	31.58	Somatic	0.000	292	178	37.87	37.87	Somatic	0.000	1		
182896	8	74,634,293	C	T	STAU2	3	intronic	400	1	0.25	521	2	0.38	0.38	Reference	0.599	486	230	32.12	32.12	Somatic	0.000	2		
182896	8	76,153,657	G	A	CRISPLD1	2	3_prime_flanking_region	545	0	0	909	0	0	0	Reference	1.000	655	332	33.64	33.64	Somatic	0.000	2		
182896	8	77,867,768	T	C	ZFHXA	2	intronic	364	11	2.93	349	250	41.74	41.74	Somatic	0.000	439	278	38.77	38.77	Somatic	0.000	1		
182896	8	83,938,841	G	C		0	3		0	202	0	0	304	0	0	0	Reference	1.000	256	50	16.34	28.68	Somatic	0.000	2
182896	8	85,584,036	G	C	RALYL	2	intronic	292	0	0	409	0	0	0	Reference	1.000	448	98	17.95	31.5	Somatic	0.000	2		
182896	8	87,960,471	C	T	CNBD1	3	intronic	279	0	0	243	0	0	0	Reference	1.000	186	54	22.5	39.49	Somatic	0.000	0		
182896	8	89,782,618	A	T	ZNF706	3	5_prime_flanking_region	594	43	6.75	452	335	42.57	42.57	Somatic	0.000	572	344	37.55	37.55	Somatic	0.000	1		
182896	8	107,166,987	G	A		0	3		0	454	1	0.22	494	1	0.2	0.2	Reference	0.771	353	169	32.38	32.38	Somatic	0.000	2
182896	8	110,699,366	C	A	GOLSYN	2	intronic	695	0	0	713	1	0.14	0.14	Reference	0.507	460	223	32.65	32.65	Somatic	0.000	2		
182896	8	113,988,997	G	A	CSMD3	2	intronic	156	6	3.7	53	34	39.08	39.08	Somatic	0.000	52	30	36.59	36.59	Somatic	0.000	1		
182896	8	121,894,500	G	A	SNTB1	2	5_prime_flanking_region	169	0	0	230	0	0	0	Reference	1.000	175	90	33.96	33.96	Somatic	0.000	2		
182896	8	129,450,884	C	T		0	3		0	2027	2	0.1	1394	1	0.07	0.07	Reference	0.792	1494	202	11.91	20.9	Somatic	0.000	2
182896	8	129,495,702	G	T		0	3		0	592	32	5.13	667	320	32.42	32.42	Somatic	0.000	709	362	33.8	33.8	Somatic	0.000	1
182896	8	129,981,123	G	A		0	3		0	221	10	4.33	239	111	31.71	31.71	Somatic	0.000	328	162	33.06	33.06	Somatic	0.000	1
182896	8	132,443,419	G	A		0	3		0	562	32	5.39	570	211	27.02	27.02	Somatic	0.000	552	302	35.36	35.36	Somatic	0.000	1
182896	8	132,597,109	G	A		0	2		0	965	1	0.1	770	1	0.13	0.13	Reference	0.691	596	284	32.27	32.27	Somatic	0.000	2
182896	8	138,706,957	T	C		0	2		0	714	0	0	551	0	0	0	Reference	1.000	632	273	30.17	30.17	Somatic	0.000	2
182896	8	139,193,549	G	T	FLJ45872	3	5_prime_flanking_region	804	1	0.12	682	0	0	0	Reference	0.541	585	263	31.01	31.01	Somatic	0.000	2		
182896	8	144,458,427	C	T	ENSG00000212221	3	5_prime_flanking_region	101	7	6.48	65	49	42.98	42.98	Somatic	0.000	172	107	38.35	38.35	Somatic	0.000	1		
182896	8	145,012,694	C	T	EPPK1	1	missense	10	0	0	63	1	1.56	1.56	Reference	0.865	161	10	5.85	10.27	Somatic	0.558	0		
182896	9	1,039,356	C	G	DMRT1	3	5_prime_flanking_region	128	10	7.25	125	53	29.78	29.78	Somatic	0.000	113	90	44.33	28.7	Somatic	0.000	1		
182896	9	1,150,836	C	A	ENSG00000219674	3	5_prime_flanking_region	523	19	3.51	266	111	29.44	29.44	Somatic	0.000	371	102	21.56	27.92	Somatic	0.000	1		
182896	9	8,746,591	T	C	PTPRD	3	intronic	376	0	0	427	0	0	0	Reference	1.000	271	214	44.12	28.57	Somatic	0.000	2		
182896	9	8,841,713	A	G	PTPRD	3	intronic	155	0	0	255	0	0	0	Reference	1.000	238	50	17.36	22.48	Somatic	0.000	2		
182896	9	9,351,406	G	A	PTPRD	2	intronic	289	13	4.3	358	143	28.54	28.54	Somatic	0.000	409	94	18.69	24.2	Somatic	0.000	1		
182896	9	11,074,699	A	T		0	3		0	393	10	2.48	294	179	37.84	37.84	Somatic	0.000	292	112	27.72	35.9	Somatic	0.000	1
182896	9	12,849,829	C	T	ENSG00000222658	3	5_prime_flanking_region	451	1	0.22	1058	0	0	0	Reference	0.299	466	268	36.51	23.64	Somatic	0.000	1		
182896	9	15,377,988	C	T	SNAPC3	2	5_prime_flanking_region	621	2	0.32	669	0	0	0	Reference	0.232	531	124	18.93	24.51	Somatic	0.000	2		
182896	9	18,516,982	A	G	ADAMTSL1	3	intronic	652	0	0	623	2	0.32	0.32	Reference	0.239	490	126	20.45	26.48	Somatic	0.000	2		
182896	9	23,520,041	T	G	LOC100131398	3	3_prime_flanking_region	1017	47	4.42	526	269	33.84	33.84	Somatic	0.000	413	361	46.64	30.2	Somatic	0.000	1		
182896	9	24,597,591	T	A		0	3		0	290	0	0	302	0	0	0	Reference	1.000	155	83	34.87	22.58	Somatic	0.000	2
182896	9	25,151,393	A	G		0	3		0	103	11	9.65	50	23	31.51	31.51	Somatic	0.000	33	33	32.38	32.38	Somatic	0.000	1
182896	9	25,925,496	T	C		0	3		0	757	20	2.57	676	375	35.68	35.68	Somatic	0.000	803	239	22.94	29.71	Somatic	0.000	1
182896	9	26,233,715	G	T		0	3		0	364	19	4.96	211	113	34.88	34.88	Somatic	0.000	230	112	27.72	35.9	Somatic	0.000	1
182896	9	30,699,266	G	A	ENSG00000220009	3	5_prime_flanking_region	217	1	0.46	373	0	0	0	Reference	0.369	230	51	18.15	23.5	Somatic	0.000	2		
182896	9	74,508,949	A	T	TMC1	3	intronic	416	21	4.81	548	332	37.73	37.73	Somatic	0.000	598	216	26.54	34.37	Somatic	0.000	1		
182896	9	75,674,362	G	A	ENSG00000218606	2	3_prime_flanking_region	498	1	0.2	665	0	0	0	Reference	0.429	382	244	38.98	25.24	Somatic	0.000	2		
182896	9	81,911,295	G	A	KIAA1958	0	3		0	308	0	0	600	0	0	0	Reference	1.000	476	132	21.71	28.11	Somatic	0.000	2
182896	9	82,256,024	C	A		0	3		0	177	8	4.32	88	28	24.14	24.14	Somatic	0.000	34	23	20.35	26.13	Somatic	0.000	1
182896	9	82,951,991	T	C		0	3		0	443	0	0	427	0	0	0	Reference	1.000	248	134	35.08	22.71	Somatic	0.000	2
182896	9	83,397,116	C	T	TLE1	3	intronic	452	0	0	235	0	0	0	Reference	1.000	198	153	43.59	28.22	Somatic	0.000	2		
182896	9	84,363,617	G	A		0	3		0	577	16	2.7	553	336	37.8	37.8	Somatic	0.000	794	255	24.31	31.48	Somatic	0.000	1
182896	9	84,860,393	C	T	RASEF	1	missense	667	44	6.19	508	272	34.87	34.87	Somatic	0.000	575	152	20.91	27.08	Somatic	0.000	1		
182896	9	85,981,929	C	T		0	3		0	479	28	5.52	282	133	32.05	32.05	Somatic	0.000	403	136	25.23	32.67	Somatic	0.000	1
182896	9	98,545,727	T	C	ZNF510	3	3_prime_flanking_region	349	11	3.06	251	100	28.49	28.49	Somatic	0.000	266	95	26.32	34.08	Somatic	0.000	1		
182896	9	100,399,181	A	C	GABBR2	3	intronic	505	0	0	379	0	0	0	Reference	1.000	402	283	41.31	26.75	Somatic	0.000	2		
182896	9	104,867,668	A	G	ENSG00000217435	3	3_prime_untranslated_region	217	0	0	220	0	0	0	Reference	1.000	231	59	20.34	26.34	Somatic	0.000	2		
182896	9	112,742,277	T	C	LPAR1	3	intronic	500	0	0	784	0	0	0	Reference	1.000	693	181	20.71	26.82	Somatic	0.000	2		
182896	9	114,297,508	T	C	KIAA1958	3	intronic	344	12	3.37	107	55	33.95	33.95	Somatic	0.000	93	75	44.64	28.9	Somatic	0.000	1		
182896	9	116,910,019	T	G	TNC	3	intronic	667	59	8.13	298	180	37.66	37.66	Somatic	0.000	288	282	49.47	32.03	Somatic	0.000	1		
182896	9	120,769,376	C	T		0	3		0	381	15	3.79	298	179	37.53	37.53	Somatic	0.000	213	189	47.01	30.44	Somatic	0.000	1
182896	9	124,757,516	A	G	RABGAP1	3	intronic	367	0	0	176	0	0	0	Reference	1.000	183	135	42.45	27.49	Somatic	0.000	2		
182896	9	125,105,013	C	T	STRBP	2	5_prime_flanking_region																		

182896	10	123,365,755	C	T	FGFR2	3	5_prime_flanking_region	0	178	1	0.56	105	0	0	0	Reference	0.630	97	34	25.95	25.95	Somatic	0.000	2	
182896	10	127,245,153	C	T	BCCIP	0	3	intronic	0	331	0	0	435	0	0	0	Reference	1.000	265	76	22.29	22.29	Somatic	0.000	2
182896	10	127,507,203	G	A	C10orf93	3	5_prime_flanking_region	0	538	1	0.19	323	0	0	0	Reference	0.625	243	71	22.61	22.61	Somatic	0.000	2	
182896	10	134,648,974	C	T	MUC6	1	silent	20	2	9.09	7	6	46.15	46.15	Somatic	0.019	17	13	43.33	43.33	Somatic	0.007	0		
182896	11	1,006,618	G	C	OR51J1	1	missense	125	11	8.09	31	1	3.12	3.12	Reference	0.928	91	23	20.18	20.18	Somatic	0.005	0		
182896	11	5,381,238	C	T	INSC	2	3_prime_flanking_region	437	0	0	576	0	0	0	Reference	1.000	431	168	28.05	28.05	Somatic	0.000	2		
182896	11	15,258,616	G	T	NAV2	3	intronic	1159	0	0	774	1	0.13	0.13	Reference	0.401	413	143	25.72	25.72	Somatic	0.000	2		
182896	11	20,095,220	A	G	NAV2	0	3	intronic	294	14	4.55	196	92	31.94	31.94	Somatic	0.000	229	120	34.38	34.38	Somatic	0.000	1	
182896	11	20,287,463	G	C	NELL1	0	3	5_prime_flanking_region	0	333	7	2.06	303	135	30.82	30.82	Somatic	0.000	258	76	22.75	22.75	Somatic	0.000	0
182896	11	20,635,064	C	A	TRIM48	0	2	intronic	0	329	1	0.3	549	0	0	0	Reference	0.375	233	81	25.8	25.8	Somatic	0.000	2
182896	11	21,685,038	C	G	DCCD1	0	2	intronic	0	249	0	0	508	0	0	0	Reference	1.000	274	87	24.1	24.1	Somatic	0.000	2
182896	11	25,497,178	G	T	ENSG00000214971	2	3_prime_untranslated_region	342	0	0	404	0	0	0	Reference	1.000	248	83	25.08	25.08	Somatic	0.000	2		
182896	11	29,704,061	G	C	FLI14213	3	intronic	470	0	0	284	1	0.35	0.35	Reference	0.377	319	118	27	27	Somatic	0.000	2		
182896	11	41,023,446	C	T	LOC100133698	0	3	5_prime_flanking_region	0	553	26	4.49	237	130	35.42	35.42	Somatic	0.000	250	143	36.39	36.39	Somatic	0.000	1
182896	11	41,845,896	C	G	MSA44A	0	3	intronic	0	490	0	0	575	0	0	0	Reference	1.000	285	112	28.21	28.21	Somatic	0.000	2
182896	11	42,678,612	A	G	TRIM48	0	3	intronic	0	694	0	0	1098	0	0	0	Reference	1.000	675	207	23.47	23.47	Somatic	0.000	2
182896	11	43,023,106	G	A	TRIM48	3	5_prime_flanking_region	145	10	6.45	154	166	51.88	51.88	Somatic	0.000	149	118	44.19	44.19	Somatic	0.000	0		
182896	11	54,807,778	G	A	TRIM48	3	5_prime_flanking_region	166	0	0	318	0	0	0	Reference	1.000	194	63	24.51	24.51	Somatic	0.000	2		
182896	11	56,145,882	G	A	OR51J1	3	5_prime_flanking_region	330	12	3.51	274	183	40.04	40.04	Somatic	0.000	323	134	29.32	29.32	Somatic	0.000	1		
182896	11	59,292,839	G	A	STX3	3	intronic	1306	0	0	360	2	0.55	0.55	Reference	0.047	217	69	24.13	24.13	Somatic	0.000	2		
182896	11	59,816,208	C	T	MSA44A	2	intronic	561	31	5.24	427	241	36.08	36.08	Somatic	0.000	381	199	34.31	34.31	Somatic	0.000	1		
182896	11	68,273,933	T	A	MTL5	2	intronic	73	0	0	103	0	0	0	Reference	1.000	112	41	26.8	26.8	Somatic	0.000	2		
182896	11	70,378,844	C	T	SHANK2	2	intronic	294	10	3.29	81	39	32.5	32.5	Somatic	0.000	120	75	38.46	38.46	Somatic	0.000	1		
182896	11	72,538,193	G	A	P2RY6	3	5_prime_flanking_region	313	11	3.4	128	69	35.03	35.03	Somatic	0.000	151	69	31.36	31.36	Somatic	0.000	1		
182896	11	78,772,386	C	T	MIRN708	2	3_prime_flanking_region	545	0	0	631	1	0.16	0.16	Reference	0.537	455	182	28.57	28.57	Somatic	0.000	2		
182896	11	80,158,104	G	A	LOC100133698	0	3	5_prime_flanking_region	0	838	0	0	668	0	0	0	Reference	1.000	317	101	24.16	24.16	Somatic	0.000	2
182896	11	87,203,195	C	T	ENSG00000210663	1	rna	157	0	0	233	0	0	0	Reference	1.000	108	30	21.74	21.74	Somatic	0.000	2		
182896	11	87,896,718	T	C	GRM5	3	intronic	734	30	3.93	430	253	37.04	37.04	Somatic	0.000	326	129	28.35	28.35	Somatic	0.000	1		
182896	11	90,026,619	C	G	GRM5	0	3	intronic	0	546	1	0.18	713	0	0	0	Reference	0.434	414	119	22.33	22.33	Somatic	0.000	2
182896	11	91,766,929	G	T	FAT3	3	intronic	975	3	0.31	1304	88	6.32	6.32	Somatic	0.000	947	59	5.86	5.86	Somatic	0.000	0		
182896	11	95,726,023	T	C	CDCD82	2	3_prime_untranslated_region	249	13	4.96	94	47	33.33	33.33	Somatic	0.000	102	47	31.54	31.54	Somatic	0.000	1		
182896	11	96,725,252	T	C	ENSG00000210663	0	3	5_prime_flanking_region	0	714	28	3.77	303	153	33.55	33.55	Somatic	0.000	281	93	24.87	24.87	Somatic	0.000	1
182896	11	102,631,404	A	T	DYNC2H1	1	missense	162	5	2.99	231	93	28.7	28.7	Somatic	0.000	171	80	31.87	31.87	Somatic	0.000	1		
182896	11	106,423,077	C	T	GUCY1A2	3	5_prime_flanking_region	604	1	0.17	810	1	0.12	0.12	Reference	0.818	354	119	25.16	25.16	Somatic	0.000	2		
182896	11	108,449,731	G	T	ENSG00000200613	2	3_prime_flanking_region	462	1	0.22	900	0	0	0	Reference	0.340	531	151	22.14	22.14	Somatic	0.000	2		
182896	11	112,192,171	C	T	ADAMTS20	0	3	intronic	0	670	33	4.69	491	241	32.92	32.92	Somatic	0.000	475	223	31.95	31.95	Somatic	0.000	1
182896	11	114,485,405	A	T	CADM1	3	5_prime_flanking_region	320	15	4.48	287	192	40.08	40.08	Somatic	0.000	200	115	36.51	36.51	Somatic	0.000	1		
182896	11	115,883,653	C	T	ARNTL2	0	3	intronic	0	290	1	0.34	186	1	0.53	0.53	Reference	0.630	176	62	26.05	26.05	Somatic	0.000	2
182896	11	123,756,995	C	T	OR8B3	3	5_prime_flanking_region	431	27	5.9	277	130	31.94	31.94	Somatic	0.000	229	102	30.82	30.82	Somatic	0.000	1		
182896	12	13,334,321	C	T	PPMIH	0	3	5_prime_flanking_region	0	236	1	0.42	167	1	0.6	0.6	Reference	0.658	173	56	24.45	24.45	Somatic	0.000	2
182896	12	4,352,204	A	C	FGF23	3	intronic	873	39	4.28	375	217	36.66	36.66	Somatic	0.000	564	206	26.75	26.75	Somatic	0.000	1		
182896	12	9,096,414	C	G	ENSG00000213847	3	5_prime_flanking_region	331	20	5.7	315	188	37.38	37.38	Somatic	0.000	285	245	46.23	46.23	Somatic	0.000	1		
182896	12	13,969,240	G	A	GRIN2B	2	intronic	770	0	0	823	0	0	0	Reference	1.000	664	170	20.38	20.38	Somatic	0.000	2		
182896	12	24,111,296	G	T	SOX5	2	intronic	369	1	0.27	556	0	0	0	Reference	0.400	396	91	18.69	18.69	Somatic	0.000	2		
182896	12	27,437,232	T	C	ARNTL2	3	intronic	247	15	5.73	341	37	9.79	9.79	Somatic	0.000	338	44	11.52	11.52	Somatic	0.008	0		
182896	12	27,874,425	T	G	ENSG00000200612	3	5_prime_flanking_region	316	15	4.53	268	109	28.91	28.91	Somatic	0.000	241	89	26.97	26.97	Somatic	0.000	1		
182896	12	30,463,081	G	C	GRIN2B	0	3	intronic	0	669	51	7.08	352	201	36.35	36.35	Somatic	0.000	453	157	25.74	25.74	Somatic	0.000	1
182896	12	33,688,694	C	T	GRIP1	0	3	intronic	0	321	17	5.03	481	266	35.61	35.61	Somatic	0.000	584	231	28.34	28.34	Somatic	0.000	1
182896	12	36,161,928	A	T	ADAMTS20	0	3	intronic	0	136	8	5.56	93	44	32.12	32.12	Somatic	0.000	102	36	26.09	26.09	Somatic	0.000	1
182896	12	42,075,016	C	T	C12orf42	3	intronic	253	1	0.39	363	1	0.27	0.27	Reference	0.831	280	237	45.84	45.84	Somatic	0.000	2		
182896	12	47,252,302	C	T	LALBA	3	5_prime_flanking_region	669	0	0	648	0	0	0	Reference	1.000	612	169	21.64	21.64	Somatic	0.000	2		
182896	12	52,422,230	G	A	CALCOC01	3	5_prime_flanking_region	483	33	6.4	183	114	38.38	38.38	Somatic	0.000	238	200	45.66	45.66	Somatic	0.000	1		
182896	12	53,665,458	A	G	KIA0748	3	5_prime_flanking_region	697	41	5.56	335	207	38.19	38.19	Somatic	0.000	315	309	49.52	49.52	Somatic	0.000	1		
182896	12	61,477,151	C	G	PPMIH	2	intronic	658	1	0.15	514	1	0.19	0.19	Reference	0.685	488	91	15.72	15.72	Somatic	0.000	2		
182896	12	65,914,533	C																						

182896	13	74,542,193	G	A	ENSG00000206812	3	5_prime_flanking_region		320	1	0.31	682	0	0	0	Reference	0.320	409	155	27.48	27.48	Somatic	0.000	2	
182896	13	75,847,171	A	T	G	0	3	1035	1	0.1	1316	0	0	0	Reference	0.440	658	190	22.41	22.41	Somatic	0.000	2		
182896	13	76,936,720	T	G		0	3	362	0	0	227	0	0	0	Reference	1.000	180	61	25.31	25.31	Somatic	0.000	2		
182896	13	79,717,202	C	T	A	ENSG00000219905	3	3_prime_flanking_region	0	343	2	0.58	617	0	0	0	Reference	0.128	276	85	23.55	23.55	Somatic	0.000	2
182896	13	80,391,400	C	T	A	ENSG00000216336	3	3_prime_flanking_region	0	304	0	0	247	0	0	0	Reference	1.000	179	47	20.8	20.8	Somatic	0.000	2
182896	13	87,752,389	C	T	A	ENSG00000216336	3	3_prime_flanking_region	0	270	14	4.93	235	120	33.8	33.8	Somatic	0.000	137	45	24.73	24.73	Somatic	0.000	1
182896	13	88,689,696	T	A	EFNB2	3	3_prime_flanking_region	417	31	6.92	301	189	38.57	38.57	Somatic	0.000	293	129	30.57	30.57	Somatic	0.000	1		
182896	13	93,127,208	A	C	GPC6	3	intronic	314	14	4.27	483	185	27.69	27.69	Somatic	0.000	285	95	25	25	Somatic	0.000	1		
182896	13	96,106,949	G	A	H56ST3	2	intronic	679	1	0.15	668	2	0.3	0.3	Reference	0.494	406	103	20.24	20.24	Somatic	0.000	2		
182896	13	96,747,365	C	G	MBNL2	2	intronic	599	36	5.67	240	109	31.23	31.23	Somatic	0.000	277	119	30.05	30.05	Somatic	0.000	1		
182896	13	103,862,763	C	T	A	COL4A1	0	3	286	16	5.3	230	106	31.55	31.55	Somatic	0.000	215	94	30.42	30.42	Somatic	0.000	1	
182896	13	105,908,823	C	T	ANKRD10	3	5_prime_flanking_region	544	20	3.55	265	92	25.77	25.77	Somatic	0.000	233	102	30.45	30.45	Somatic	0.000	1		
182896	13	111,955,904	C	T	A	OR4H12P	0	2	172	8	4.44	63	29	31.52	31.52	Somatic	0.000	159	76	32.34	32.34	Somatic	0.000	1	
182896	14	19,298,539	C	T	SLC7A8	1	nonsense	950	22	2.26	1132	173	13.26	13.26	Somatic	0.000	644	138	17.65	17.65	Somatic	0.000	0		
182896	14	22,677,262	C	T	ENSG00000213882	3	3_prime_flanking_region	182	4	2.15	131	44	25.14	25.14	Somatic	0.000	217	113	34.24	34.24	Somatic	0.000	1		
182896	14	25,793,249	G	T	PRKD1	3	intronic	1106	2	0.18	733	2	0.27	0.27	Reference	0.523	568	198	25.85	25.85	Somatic	0.000	2		
182896	14	29,460,470	A	T	FOXN3	3	5_prime_flanking_region	310	10	3.12	127	39	23.49	23.49	Somatic	0.000	143	55	27.78	27.78	Somatic	0.000	1		
182896	14	29,474,026	G	A	ATP10A	0	3	287	0	0	305	1	0.49	0.49	Reference	0.500	84	43	33.86	33.86	Somatic	0.000	2		
182896	14	36,626,439	G	T	SLC25A21	3	intronic	0	206	0	0	205	0	0	0	Reference	1.000	215	37	14.68	14.68	Somatic	0.000	1	
182896	14	42,180,322	C	T	A	RH12	0	3	504	0	0	618	0	0	0	Reference	1.000	247	61	19.81	19.81	Somatic	0.000	2	
182896	14	43,581,089	G	A	HEATR4	0	3	307	0	0	714	36	4.8	4.8	Somatic	0.000	576	40	6.49	6.49	Somatic	0.000	0		
182896	14	47,735,269	T	A	FOXN3	3	intronic	258	0	0	187	0	0	0	Reference	1.000	166	63	27.51	27.51	Somatic	0.000	2		
182896	14	49,597,816	C	G	ENSG00000201358	3	5_prime_flanking_region	332	13	3.77	148	70	32.11	32.11	Somatic	0.000	142	65	31.4	31.4	Somatic	0.000	1		
182896	14	50,960,896	G	A	LOC729335	3	5_prime_flanking_region	917	0	0	939	0	0	0	Reference	1.000	575	174	23.23	23.23	Somatic	0.000	2		
182896	14	56,810,085	C	T	MUDENG	3	intronic	253	15	5.6	98	49	33.33	33.33	Somatic	0.000	109	35	24.31	24.31	Somatic	0.000	1		
182896	14	63,614,979	A	G	SYNE2	1	missense	295	10	3.28	384	136	26.15	26.15	Somatic	0.000	263	102	27.95	27.95	Somatic	0.000	1		
182896	14	65,496,532	C	T	LOC729850	2	intronic	372	17	4.37	210	138	39.66	39.66	Somatic	0.000	231	103	30.84	30.84	Somatic	0.000	1		
182896	14	67,252,032	T	C	ATP10A	3	5_prime_flanking_region	258	0	0	187	0	0	0	Reference	1.000	166	63	27.51	27.51	Somatic	0.000	2		
182896	14	73,024,187	G	A	MEGFI1	3	intronic	427	7	1.61	189	43	18.53	18.53	Somatic	0.000	169	50	22.83	22.83	Somatic	0.000	0		
182896	14	89,146,164	C	T	PIAS1	3	intronic	607	1	0.16	699	4	0.57	0.57	Somatic	0.236	301	86	22.22	22.22	Somatic	0.000	0		
182896	14	90,831,686	C	T	CCDC88C	3	intronic	128	1	0.78	88	0	0	0	Reference	0.594	93	38	29.01	29.01	Somatic	0.000	2		
182896	14	92,104,788	G	A	RIN3	2	intronic	268	0	0	297	1	0.34	0.34	Reference	0.527	232	82	26.11	26.11	Somatic	0.000	2		
182896	14	92,689,266	C	T	ITPK1	3	5_prime_flanking_region	410	5	1.2	74	57	43.51	43.51	Somatic	0.000	103	52	33.55	33.55	Somatic	0.000	0		
182896	15	22,790,065	G	A	SNORD109A	3	5_prime_flanking_region	378	16	4.06	551	200	26.63	26.63	Somatic	0.000	303	114	27.34	27.34	Somatic	0.000	1		
182896	15	23,664,857	A	C	ATP10A	3	5_prime_flanking_region	306	0	0	264	0	0	0	Reference	1.000	178	68	27.64	27.64	Somatic	0.000	2		
182896	15	24,575,811	C	T	GABRB3	3	intronic	146	6	3.95	87	48	35.56	35.56	Somatic	0.000	90	43	32.33	32.33	Somatic	0.000	1		
182896	15	31,395,705	A	G	RYR3	3	intronic	254	0	0	214	0	0	0	Reference	1.000	163	37	18.5	18.5	Somatic	0.000	2		
182896	15	34,362,754	A	G	LOC100130107	0	3	291	15	4.9	203	122	37.54	37.54	Somatic	0.000	181	87	32.46	32.46	Somatic	0.000	1		
182896	15	34,586,155	C	G	ANXA2	0	3	433	0	0	390	0	0	0	Reference	1.000	232	74	24.18	24.18	Somatic	0.000	2		
182896	15	36,272,593	G	T	ANXKA2	3	5_prime_flanking_region	0	247	11	4.26	241	139	36.58	36.58	Somatic	0.000	157	85	35.12	35.12	Somatic	0.000	1	
182896	15	37,705,239	C	A	FSIP1	3	intronic	266	11	3.97	356	195	35.39	35.39	Somatic	0.000	303	156	33.99	33.99	Somatic	0.000	1		
182896	15	38,950,428	T	A	VPS18	3	5_prime_flanking_region	376	17	4.33	156	60	27.78	27.78	Somatic	0.000	173	53	23.45	23.45	Somatic	0.000	1		
182896	15	39,829,808	G	A	MGA	1	silent	312	6	1.89	195	34	14.85	14.85	Somatic	0.000	159	32	16.75	16.75	Somatic	0.000	0		
182896	15	55,709,883	C	A	GCOM1	3	intronic	407	0	0	333	1	0.3	0.3	Reference	0.451	209	86	29.15	29.15	Somatic	0.000	2		
182896	15	55,842,558	A	G	GCOM1	3	5_prime_flanking_region	856	52	5.73	626	214	25.48	25.48	Somatic	0.000	617	226	26.81	26.81	Somatic	0.000	1		
182896	15	57,875,406	G	A	LOC100130107	3	5_prime_flanking_region	218	0	0	183	0	0	0	Reference	1.000	118	15	11.28	11.28	Somatic	0.000	0		
182896	15	58,483,928	C	T	ATP10A	2	intronic	57	1	1.72	32	37	53.62	53.62	Somatic	0.000	46	27	36.99	36.99	Somatic	0.000	0		
182896	15	59,192,936	C	A	RORA	2	intronic	517	1	0.19	445	0	0	0	Reference	0.538	325	100	23.53	23.53	Somatic	0.000	2		
182896	15	62,834,041	C	T	RPBMS2	2	intronic	433	0	0	191	1	0.52	0.52	Reference	0.307	166	56	25.23	25.23	Somatic	0.000	2		
182896	15	64,225,107	G	C	MEGFI1	3	intronic	269	9	3.24	138	66	32.35	32.35	Somatic	0.000	235	103	30.47	30.47	Somatic	0.000	1		
182896	15	66,146,286	A	C	PIAS1	3	intronic	254	0	0	245	0	0	0	Reference	1.000	121	40	24.84	24.84	Somatic	0.000	2		
182896	15	79,685,630	A	C	LOC388210	0	3	533	0	0	678	1	0.15	0.15	Reference	0.560	362	116	24.27	24.27	Somatic	0.000	2		
182896	15	90,068,472	G	A	ANXKA2	3	5_prime_flanking_region	0	529	1	0.19	524	0	0	0	Reference	0.503	306	112	26.79	26.79	Somatic	0.000	2	
182896	15	90,314,220	G	A	SLCO3A1	3	intronic	368	1	0.27	391	0	0	0	Reference	0.486	341	99	22.5	22.5	Somatic	0.000	2		
182896	15	93,513,887	C	T	ANXKA2	0	2	491	0	0	531	1	0.19	0.19	Reference	0.520	329	83	20.15	20.15	Somatic	0.000	2		
182896	15	94,095,714																							

182896	17	47,046,357	G	A	CA10	3	3_prime_flanking_region	38	5	11.63	15	6	28.57	28.57	Somatic	0.093	9	15	62.5	62.5	Somatic	0.000	0	
182896	17	48,634,173	A	T		0	3	0	599	1	0.17	495	0	0	0	Reference	0.548	176	66	27.27	27.27	Somatic	0.000	2
182896	17	49,909,611	G	T		0	3	0	141	0	0	197	0	0	0	Reference	1.000	96	31	24.41	24.41	Somatic	0.000	2
182896	17	52,014,201	C	A	NOG	2	5_prime_flanking_region	320	15	4.48	135	65	32.5	32.5	Somatic	0.000	139	65	31.86	31.86	Somatic	0.000	1	
182896	17	52,522,671	G	T	AKAP1	3	intronic	383	20	4.96	135	89	39.73	39.73	Somatic	0.000	123	71	36.6	36.6	Somatic	0.000	1	
182896	17	54,350,192	T	C	PPM1E	3	intronic	183	15	7.58	162	108	40	40	Somatic	0.000	108	49	31.21	31.21	Somatic	0.000	1	
182896	17	57,353,243	T	G	INTS2	3	intronic	131	4	2.96	98	64	39.51	39.51	Somatic	0.000	119	82	40.8	40.8	Somatic	0.000	1	
182896	17	62,436,118	C	T	CACNG4	2	intronic	538	13	2.36	199	85	29.93	29.93	Somatic	0.000	304	126	29.3	29.3	Somatic	0.000	1	
182896	17	66,741,483	T	G		0	3	0	291	15	4.9	114	53	31.74	31.74	Somatic	0.000	149	100	40.16	40.16	Somatic	0.000	1
182896	17	67,960,797	G	A		0	3	0	461	3	0.65	432	1	0.23	0.23	Reference	0.929	363	133	26.81	26.81	Somatic	0.000	2
182896	18	604,762	A	G	CLUL1	3	intronic	438	0	0	451	0	0	0	Reference	1.000	254	64	20.13	20.13	Somatic	0.000	2	
182896	18	5,968,504	G	T	L3MBTL4	3	intronic	309	0	0	378	0	0	0	Reference	1.000	325	133	29.04	29.04	Somatic	0.000	2	
182896	18	9,727,095	G	T	RAB31	3	5_prime_flanking_region	406	22	5.14	207	67	24.45	24.45	Somatic	0.000	159	65	29.02	29.02	Somatic	0.000	1	
182896	18	12,063,653	A	G	LOC728211	1	rna	176	15	7.85	124	34	21.52	21.52	Somatic	0.000	170	48	22.02	22.02	Somatic	0.000	0	
182896	18	21,258,643	C	T		0	2	0	760	1	0.13	924	1	0.11	0.11	Reference	0.796	567	167	22.75	22.75	Somatic	0.000	2
182896	18	21,626,714	T	C	ENSG00000222577	3	3_prime_flanking_region	509	0	0	1015	0	0	0	Reference	1.000	627	222	26.15	26.15	Somatic	0.000	2	
182896	18	23,665,545	C	A		0	3	0	796	39	4.67	616	266	30.16	30.16	Somatic	0.000	373	156	29.49	29.49	Somatic	0.000	1
182896	18	23,942,937	C	T	CDH2	3	intronic	345	0	0	502	0	0	0	Reference	1.000	285	84	22.76	22.76	Somatic	0.000	2	
182896	18	25,130,493	T	C		0	3	0	407	0	0	389	1	0.26	0.26	Reference	0.489	220	74	25.17	25.17	Somatic	0.000	2
182896	18	25,702,126	C	T		0	3	0	620	1	0.16	578	1	0.17	0.17	Reference	0.732	315	82	20.65	20.65	Somatic	0.000	2
182896	18	32,252,978	G	A	FHOD3	3	intronic	193	5	2.53	48	20	29.41	29.41	Somatic	0.000	97	38	28.15	28.15	Somatic	0.000	1	
182896	18	39,965,019	G	A		0	3	0	166	0	0	126	0	0	0	Reference	1.000	65	17	20.73	20.73	Somatic	0.000	2
182896	18	48,702,197	T	A	DCC	3	intronic	169	10	5.59	108	56	34.15	34.15	Somatic	0.000	106	50	32.05	32.05	Somatic	0.000	1	
182896	18	48,958,578	A	T	DCC	3	intronic	584	0	0	712	0	0	0	Reference	1.000	551	152	21.62	21.62	Somatic	0.000	2	
182896	18	51,991,638	C	A	ENSG00000206129	3	intronic	497	19	3.68	769	240	23.79	23.79	Somatic	0.000	690	253	26.83	26.83	Somatic	0.000	1	
182896	18	67,902,207	G	A		0	3	0	629	1	0.16	807	1	0.12	0.12	Reference	0.808	453	143	23.99	23.99	Somatic	0.000	2
182896	18	72,739,731	T	C	ZNF236	3	intronic	110	0	0	77	1	1.28	1.28	Reference	0.415	153	65	29.82	29.82	Somatic	0.000	2	
182896	18	72,796,856	G	A	ZNF236	3	intronic	251	0	0	401	0	0	0	Reference	1.000	311	102	24.7	24.7	Somatic	0.000	2	
182896	19	3,036,024	G	A	AES	3	5_prime_flanking_region	580	0	0	129	0	0	0	Reference	1.000	163	42	20.49	20.49	Somatic	0.000	2	
182896	19	9,979,176	C	T	COLS3A	3	intronic	106	2	1.85	19	8	29.63	29.63	Somatic	0.000	54	14	20.59	20.59	Somatic	0.000	1	
182896	19	38,989,920	T	G	KCTD15	2	intronic	138	6	4.17	77	38	33.04	33.04	Somatic	0.000	159	83	34.3	34.3	Somatic	0.000	0	
182896	19	41,390,851	A	C	ZNF565	2	intronic	1465	60	3.93	477	251	34.48	34.48	Somatic	0.000	390	363	48.21	48.21	Somatic	0.000	1	
182896	19	50,669,475	G	A	FOSB	3	3_prime untranslated_region	168	1	0.59	63	0	0	0	Reference	0.728	112	28	20	20	Somatic	0.000	2	
182896	19	55,401,064	T	G	MYH14	2	intronic	24	3	11.11	21	20	48.78	48.78	Somatic	0.001	35	22	38.6	38.6	Somatic	0.008	0	
182896	19	57,131,351	G	A	ZNF613	2	intronic	283	0	0	346	0	0	0	Reference	1.000	323	54	14.32	14.32	Somatic	0.000	2	
182896	19	58,044,066	C	G	ZNF468	3	intronic	392	0	0	211	0	0	0	Reference	1.000	361	83	18.69	18.69	Somatic	0.000	2	
182896	19	61,172,998	C	T	NLRP8	2	intronic	546	17	3.02	251	129	33.95	33.95	Somatic	0.000	253	169	40.05	40.05	Somatic	0.000	1	
182896	19	63,784,928	A	C	ENSG00000175487	2	5_prime untranslated_region	540	0	0	148	1	0.67	0.67	Reference	0.216	142	102	41.8	41.8	Somatic	0.000	2	
182896	20	1,128,483	C	A	C20orf46	3	5_prime_flanking_region	356	1	0.28	192	1	0.52	0.52	Reference	0.579	190	75	28.3	28.3	Somatic	0.000	2	
182896	20	2,181,067	C	G	TGM3	3	5_prime_flanking_region	438	17	3.74	184	66	26.4	26.4	Somatic	0.000	161	47	22.6	22.6	Somatic	0.000	1	
182896	20	2,852,144	A	T	PTPRA	3	intronic	289	5	1.7	192	3	1.54	1.54	Somatic	0.684	65	24	26.97	26.97	Somatic	0.000	0	
182896	20	5,372,211	A	T	LOC643406	3	5_prime_flanking_region	631	45	6.66	196	121	38.17	38.17	Somatic	0.000	208	106	33.76	33.76	Somatic	0.000	1	
182896	20	6,318,148	G	A		0	2	0	532	0	0	528	0	0	0	Reference	1.000	431	121	21.92	21.92	Somatic	0.000	2
182896	20	6,928,181	C	A		0	3	0	251	5	1.95	327	197	37.6	37.6	Somatic	0.000	349	144	29.21	29.21	Somatic	0.000	1
182896	20	9,122,658	A	T	PLCB4	3	intronic	255	2	0.78	260	0	0	0	Reference	0.247	137	56	29.02	29.02	Somatic	0.000	2	
182896	20	10,175,964	C	T	SNAP25	3	intronic	368	12	3.16	237	126	34.71	34.71	Somatic	0.000	222	132	37.29	37.29	Somatic	0.000	1	
182896	20	19,401,828	T	A	SLC24A3	3	intronic	579	1	0.17	610	1	0.16	0.16	Reference	0.763	414	152	26.86	26.86	Somatic	0.000	2	
182896	20	19,936,152	G	A	NAT5	3	5_prime_flanking_region	1233	51	3.97	266	104	28.57	28.57	Somatic	0.000	105	44	29.53	29.53	Somatic	0.000	1	
182896	20	25,064,458	G	A	ENSG00000216300	3	3_prime_flanking_region	331	1	0.3	274	0	0	0	Reference	0.548	184	53	22.36	22.36	Somatic	0.000	2	
182896	20	25,141,135	A	C	ENTPD6	3	intronic	153	5	3.16	127	10	7.3	7.3	Reference	0.089	201	22	9.87	9.87	Somatic	0.008	0	
182896	20	29,369,328	G	T	DEFB116	2	5_prime_flanking_region	325	1	0.31	394	0	0	0	Reference	0.453	264	66	20	20	Somatic	0.000	2	
182896	20	38,733,775	C	T	MAFB	3	3_prime_flanking_region	590	1	0.17	268	0	0	0	Reference	0.688	290	81	21.83	21.83	Somatic	0.000	2	
182896	20	46,310,835	G	A		0	3	0	503	0	0	310	0	0	0	Reference	1.000	278	94	25.27	25.27	Somatic	0.000	2
182896	20	49,463,356	T	A	NFATC2	3	intronic	377	0	0	293	0	0	0	Reference	1.000	221	92	29.39	29.39	Somatic	0.000	2	
182896	20	51,090,596	G	A	TSHZ2	3	intronic	211	0	0	331	0	0	0	Reference	1.000	292	126	30.14	30.14	Somatic	0.000	2	
182896	20	58,863,677	G	T		0	2	0	440	0	0	290	10	3.33	3.33	Somatic	0.000	245	9	3.54	3.54	Somatic	0.000	0
182896	20	59,413,844	C</																					

182896	X	120,600,437	G	A	0	3	0	222	0	0	205	0	0	0	Reference	1,000	109	86	44.1	22.05	Somatic	0.000	2		
182896	X	120,883,173	C	T	0	3	3	5_prime_flanking_region	0	195	16	7.58	60	253	80.83	40.42	Somatic	0.000	149	134	47.35	23.68	Somatic	0.000	0
182896	X	140,713,746	G	A	MAGEC3	0	3	3	5_prime_flanking_region	160	17	9.6	53	146	73.37	36.69	Somatic	0.000	95	75	44.12	22.06	Somatic	0.000	0
182896	X	147,184,611	C	T	0	3	0	155	0	0	283	0	0	0	Reference	1,000	145	86	37.23	18.62	Somatic	0.000	2		
182896	Y	10,578,365	T	A	ENSG00000219584	3	5_prime_flanking_region	127	2	1.55	166	4	2.33	1.17	Somatic	0.485	18	86	82.69	41.35	Somatic	0.000	0		
182896	Y	27,033,947	C	A	ENSG00000215506	3	intronic	112	0	0	272	0	0	0	Reference	1,000	169	93	35.5	17.75	Somatic	0.000	2		
182896	Y	27,033,991	C	A	ENSG00000215506	3	intronic	111	0	0	242	0	0	0	Reference	1,000	149	104	41.11	20.56	Somatic	0.000	2		
266395	1	19,065,087	G	A	TAS1R2	3	5_prime_flanking_region	559	16	2.78	82	79	49.07	49.07	Somatic	0.000	241	236	49.48	49.48	Somatic	0.000	1		
266395	1	19,575,544	G	A	CAP2B	3	intronic	240	14	5.51	90	70	43.75	43.75	Somatic	0.000	220	186	45.81	45.81	Somatic	0.000	1		
266395	1	35,025,125	A	G	GI4A	2	5_prime_flanking_region	891	11	1.22	383	318	45.36	45.36	Somatic	0.000	437	345	44.12	44.12	Somatic	0.000	1		
266395	1	43,382,798	G	A	FAM183A	3	5_prime_untranslated_region	1361	56	3.95	559	480	46.20	46.20	Somatic	0.000	406	341	45.65	45.65	Somatic	0.000	1		
266395	1	53,979,456	C	T	GLS1	3	5_prime_flanking_region	219	28	11.34	231	203	46.77	46.77	Somatic	0.000	201	180	47.24	47.24	Somatic	0.000	1		
266395	1	54,441,310	C	T	MRPL37	2	intronic	691	34	4.69	274	259	48.59	48.59	Somatic	0.000	286	254	47.04	47.04	Somatic	0.000	1		
266395	1	60,329,124	A	G	C1orf87	2	5_prime_flanking_region	664	25	3.63	679	571	45.68	45.68	Somatic	0.000	394	355	47.40	47.40	Somatic	0.000	1		
266395	1	61,483,596	C	T	NFIA	3	intronic	134	10	6.94	127	120	48.58	48.58	Somatic	0.000	203	171	45.72	45.72	Somatic	0.000	1		
266395	1	63,400,074	G	T	ENSG00000210785	2	3_prime_flanking_region	792	27	3.30	942	938	49.89	49.89	Somatic	0.000	470	422	47.31	47.31	Somatic	0.000	1		
266395	1	66,393,703	C	T	PDE4B	3	intronic	638	27	4.06	591	451	43.28	43.28	Somatic	0.000	306	273	47.15	47.15	Somatic	0.000	1		
266395	1	84,880,057	A	C	C1orf180	3	5_prime_flanking_region	366	15	3.94	930	61	6.16	6.16	Somatic	0.201	599	183	23.40	23.40	Somatic	0.000	0		
266395	1	91,923,288	C	T	TGFB3R	3	intronic	603	27	4.29	488	507	50.95	50.95	Somatic	0.000	329	321	49.38	49.38	Somatic	0.000	1		
266395	1	97,037,795	T	C	PTBP2	3	intronic	269	8	2.89	566	529	48.22	48.22	Somatic	0.000	296	259	46.67	46.67	Somatic	0.000	1		
266395	1	106,376,327	C	G	LOC126987	3	3_prime_flanking_region	242	9	3.59	279	280	50.09	50.09	Somatic	0.000	325	293	47.41	47.41	Somatic	0.000	1		
266395	1	111,623,853	C	T	CHIA	2	5_prime_flanking_region	1328	27	1.99	897	735	45.04	45.04	Somatic	0.000	567	416	42.32	42.32	Somatic	0.000	1		
266395	1	112,325,945	G	T	KCND3	1	silent	708	17	2.34	278	245	46.85	46.85	Somatic	0.000	298	268	47.35	47.35	Somatic	0.000	1		
266395	1	146,213,819	A	T	LOC100132219	3	5_prime_flanking_region	801	40	4.76	206	173	45.65	45.65	Somatic	0.000	332	286	46.28	46.28	Somatic	0.000	1		
266395	1	157,603,769	G	T	OR10J1	3	intronic	616	31	4.79	462	372	44.60	44.60	Somatic	0.000	278	243	46.64	46.64	Somatic	0.000	1		
266395	1	163,243,072	C	T	ENSG000002012720	3	5_prime_flanking_region	595	18	2.94	654	556	45.95	45.95	Somatic	0.000	310	249	44.54	44.54	Somatic	0.000	1		
266395	1	165,197,653	G	A	ILDR2	3	intronic	1699	61	3.47	475	437	47.92	47.92	Somatic	0.000	469	423	47.42	47.42	Somatic	0.000	1		
266395	1	165,827,772	C	T	CREG1	3	5_prime_flanking_region	238	13	5.18	218	165	43.08	43.08	Somatic	0.000	311	254	44.96	44.96	Somatic	0.000	1		
266395	1	174,944,913	C	T	PAPPA2	3	intronic	946	1	0.11	1713	47	2.67	2.67	Somatic	0.000	514	136	20.92	20.92	Somatic	0.000	2		
266395	1	175,516,166	C	A	FAM5B	3	splice_region	679	27	3.82	680	565	45.38	45.38	Somatic	0.000	329	311	48.59	48.59	Somatic	0.000	1		
266395	1	205,309,412	C	G	PFKFB2	1	silent	593	21	3.42	447	414	48.08	48.08	Somatic	0.000	331	332	50.08	50.08	Somatic	0.000	1		
266395	1	206,921,075	G	A	ENSG00000217293	3	3_prime_flanking_region	396	11	2.70	275	256	48.21	48.21	Somatic	0.000	389	293	42.96	42.96	Somatic	0.000	1		
266395	1	215,059,819	C	T	ESRRG	3	intronic	321	8	2.43	306	271	46.97	46.97	Somatic	0.000	417	311	42.72	42.72	Somatic	0.000	1		
266395	1	215,500,402	A	T	ENSG00000201753	2	3_prime_flanking_region	830	23	2.70	933	745	44.40	44.40	Somatic	0.000	428	371	46.43	46.43	Somatic	0.000	1		
266395	1	225,042,030	C	T	ITPKB	3	5_prime_flanking_region	422	19	4.31	197	181	47.88	47.88	Somatic	0.000	215	193	47.30	47.30	Somatic	0.000	1		
266395	1	229,096,537	T	C	ENSG00000222671	1	rna	406	20	4.69	172	146	45.91	45.91	Somatic	0.000	231	219	48.67	48.67	Somatic	0.000	1		
266395	1	232,624,711	A	C	TARPB1	3	intronic	444	21	4.52	964	122	11.23	11.23	Somatic	0.048	287	257	47.24	47.24	Somatic	0.000	0		
266395	1	242,682,289	T	G	ADSS	2	5_prime_flanking_region	110	0	0.00	372	7	1.85	1.85	Somatic	0.165	460	133	22.43	22.43	Somatic	0.000	2		
266395	1	244,630,678	C	T	SMYD3	2	intronic	292	10	3.31	299	198	39.84	39.84	Somatic	0.000	302	303	50.08	50.08	Somatic	0.000	1		
266395	1	246,007,658	G	A	OR1C1	3	5_prime_flanking_region	434	8	1.81	579	510	46.83	46.83	Somatic	0.000	369	286	43.66	43.66	Somatic	0.000	1		
266395	2	863,187	C	T	LOC391343	3	3_prime_flanking_region	379	21	5.25	106	46	30.26	30.26	Somatic	0.000	310	252	44.84	44.84	Somatic	0.000	0		
266395	2	12,407,391	G	A	0	3	0	1171	40	3.30	634	556	46.72	46.72	Somatic	0.000	403	394	49.44	49.44	Somatic	0.000	1		
266395	2	20,289,990	C	T	LOC100131373	1	silent	20	0	0.00	8	16	66.67	66.67	Somatic	0.000	92	92	50.00	50.00	Somatic	0.000	0		
266395	2	35,703,943	G	A	0	3	0	682	24	3.40	511	518	50.34	50.34	Somatic	0.000	344	293	46.00	46.00	Somatic	0.000	1		
266395	2	35,720,616	T	C	THUMPD2	3	5_prime_flanking_region	340	7	2.02	538	477	47.00	47.00	Somatic	0.000	189	169	47.21	47.21	Somatic	0.000	1		
266395	2	39,902,719	T	C	XPO1	1	misense	386	17	4.22	206	145	41.31	41.31	Somatic	0.000	373	322	46.33	46.33	Somatic	0.000	1		
266395	2	61,569,230	T	A	GK2N	3	intronic	519	3	0.57	1093	51	4.46	4.46	Somatic	0.000	545	156	22.25	22.25	Somatic	0.000	2		
266395	2	69,027,275	A	G	LRRTM4	3	intronic	540	25	4.42	1135	1029	47.55	47.55	Somatic	0.000	399	352	46.87	46.87	Somatic	0.000	1		
266395	2	80,591,943	A	G	CTTNA2	3	intronic	548	18	3.18	547	453	45.30	45.30	Somatic	0.000	392	309	44.08	44.08	Somatic	0.000	1		
266395	2	89,010,893	C	T	ENSG00000219044	3	5_prime_flanking_region	198	4	1.98	226	200	46.95	46.95	Somatic	0.000	274	228	45.42	45.42	Somatic	0.000	1		
266395	2	98,221,020	T	A	VWA3B	3	intronic	736	52	6.60	442	407	47.94	47.94	Somatic	0.000	283	263	48.17	48.17	Somatic	0.000	1		
266395	2	123,201,256	G	A	0	3	0	126	2	1.56	158	116	42.34	42.34	Somatic	0.000	194	167	46.26	46.26	Somatic	0.000	1		
266395	2	125,241,196	C	T	CNTNAPS	2	intronic	683	75	9.89	925	708	43.36	43.36	Somatic	0.000	303	289	48.82	48.82	Somatic	0.000	1		
266395	2	126,115,254	G	T	0	3	0	537	11	2.01	690	544	44.08	44.08	Somatic	0.000	265	232	46.68	46.68	Somatic	0.000	1		
266395	2																								

266395	3	75,444,179	C	T	ENSG00000179799	3	_3_prime_flanking_region	1238	2	0.16	1384	31	2.19	2.19	Somatic	0.000	598	163	21.42	21.42	Somatic	0.000	2		
266395	3	75,472,731	A	C	LOC278135	3	_3_prime_flanking_region	322	12	3.59	226	186	45.15	45.15	Somatic	0.000	187	164	46.72	46.72	Somatic	0.000	1		
266395	3	76,099,526	G	A	ROBO2	3	intronic	277	5	1.77	476	225	32.10	32.10	Somatic	0.000	230	198	46.26	46.26	Somatic	0.000	0		
266395	3	76,586,575	C	T	ROBO2	3	intronic	233	2	0.85	354	144	28.92	28.92	Somatic	0.000	293	195	39.96	39.96	Somatic	0.000	0		
266395	3	80,602,658	G	A		0	3	0	126	3	2.33	171	147	46.23	46.23	Somatic	0.000	243	234	49.06	49.06	Somatic	0.000	1	
266395	3	81,055,536	G	A		0	3	0	490	35	6.67	686	616	47.31	47.31	Somatic	0.000	429	366	46.04	46.04	Somatic	0.000	1	
266395	3	85,219,286	T	G	CADM2	3	intronic	159	15	8.62	261	169	39.30	39.30	Somatic	0.000	286	236	45.21	45.21	Somatic	0.000	1		
266395	3	86,451,526	T	C	ENSG00000222934	3	_5_prime_flanking_region	25	3	10.71	39	55	58.51	58.51	Somatic	0.000	51	49	49.00	49.00	Somatic	0.000	0		
266395	3	99,901,474	T	G	ST3GAL6	2	_5_prime_flanking_region	36	5	12.20	81	19	19.00	19.00	Somatic	0.285	55	85	60.71	60.71	Somatic	0.001	0		
266395	3	100,667,116	C	T		0	3	0	819	2	0.24	2861	55	1.89	1.89	Somatic	0.000	614	181	22.77	22.77	Somatic	0.000	2	
266395	3	111,192,335	T	C		0	3	0	338	7	2.03	438	411	48.41	48.41	Somatic	0.000	302	247	44.99	44.99	Somatic	0.000	1	
266395	3	111,431,333	C	T		0	3	0	153	1	0.65	287	213	42.60	42.60	Somatic	0.000	258	181	41.23	41.23	Somatic	0.000	1	
266395	3	115,134,962	G	T	GRAMD1C	3	intronic	141	2	1.40	252	200	44.25	44.25	Somatic	0.000	236	188	44.34	44.34	Somatic	0.000	1		
266395	3	115,150,252	C	G	ZDHHC23	2	intronic	296	7	2.31	480	393	45.02	45.02	Somatic	0.000	271	236	46.55	46.55	Somatic	0.000	1		
266395	3	133,430,465	T	G	LOC279677	3	_3_prime_flanking_region	1116	22	1.93	1852	136	6.84	6.84	Somatic	0.000	614	148	19.42	19.42	Somatic	0.000	0		
266395	3	133,441,990	C	A	LOC279677	3	_3_prime_flanking_region	542	37	6.39	721	670	48.17	48.17	Somatic	0.000	450	412	47.80	47.80	Somatic	0.000	1		
266395	3	134,386,054	A	T	TMEM108	3	intronic	134	8	5.63	147	128	46.55	46.55	Somatic	0.000	233	185	44.26	44.26	Somatic	0.000	1		
266395	3	136,219,503	A	G	EPHB1	3	intronic	1277	59	4.42	1050	100	8.70	8.70	Somatic	0.004	342	100	22.62	22.62	Somatic	0.000	0		
266395	3	136,463,072	C	T	EPHB1	3	_3_prime_flanking_region	332	8	2.35	245	187	43.29	43.29	Somatic	0.000	177	151	46.04	46.04	Somatic	0.000	1		
266395	3	158,727,296	T	A	C3orf55	3	_5_prime_flanking_region	545	25	4.39	313	272	46.50	46.50	Somatic	0.000	256	205	44.47	44.47	Somatic	0.000	1		
266395	3	163,509,409	G	C		0	3	0	315	7	2.17	549	459	45.54	45.54	Somatic	0.000	381	349	47.81	47.81	Somatic	0.000	1	
266395	3	166,201,621	C	T	SI	3	intronic	89	3	3.26	152	122	44.53	44.53	Somatic	0.000	109	83	43.23	43.23	Somatic	0.000	1		
266395	3	170,819,805	C	T	MDS1	3	intronic	687	20	2.83	683	638	48.30	48.30	Somatic	0.000	312	250	44.48	44.48	Somatic	0.000	1		
266395	3	173,529,456	C	A	FNDC3B	1	missense	262	2	0.76	439	356	44.78	44.78	Somatic	0.000	219	146	40.00	40.00	Somatic	0.000	0		
266395	3	177,936,424	A	T	ENSG00000208490	3	_5_prime_flanking_region	614	30	4.66	602	426	41.44	41.44	Somatic	0.000	460	380	45.24	45.24	Somatic	0.000	1		
266395	4	188,400,850	C	A	RTP1	3	_3_prime_untranslated_region	341	5	1.45	405	383	48.60	48.60	Somatic	0.000	278	215	43.61	43.61	Somatic	0.000	1		
266395	4	2,261,310	G	A	ZFYVE28	2	intronic	131	11	7.75	37	26	41.27	41.27	Somatic	0.000	283	249	46.80	46.80	Somatic	0.000	1		
266395	4	7,365,576	T	A	SORCS2	3	intronic	1048	8	0.76	270	3	1.10	1.10	Somatic	0.401	446	117	20.78	20.78	Somatic	0.000	2		
266395	4	7,395,182	A	T	SORCS2	3	intronic	148	3	1.99	113	97	46.19	46.19	Somatic	0.000	121	130	51.79	51.79	Somatic	0.000	1		
266395	4	16,550,472	C	T	LDB2	3	_5_prime_flanking_region	241	14	5.49	252	214	45.92	45.92	Somatic	0.000	229	213	48.19	48.19	Somatic	0.000	1		
266395	4	18,139,490	C	T	ENSG00000209956	3	_3_prime_flanking_region	392	25	6.00	687	531	43.60	43.60	Somatic	0.000	305	224	42.34	42.34	Somatic	0.000	1		
266395	4	22,362,173	A	G	GBA3	3	intronic	1156	44	3.67	896	834	48.21	48.21	Somatic	0.000	371	366	49.66	49.66	Somatic	0.000	1		
266395	4	29,185,860	G	A		0	3	0	304	11	3.49	536	498	48.16	48.16	Somatic	0.000	344	313	47.64	47.64	Somatic	0.000	1	
266395	4	29,629,786	G	A		0	3	0	397	3	0.75	378	266	41.30	41.30	Somatic	0.000	273	199	42.16	42.16	Somatic	0.000	1	
266395	4	31,623,175	A	G	LOC10013713	3	_5_prime_flanking_region	246	15	5.75	264	253	48.94	48.94	Somatic	0.000	316	315	49.92	49.92	Somatic	0.000	1		
266395	4	32,768,631	G	A		0	3	0	398	15	3.63	653	505	43.61	43.61	Somatic	0.000	307	268	46.61	46.61	Somatic	0.000	1	
266395	4	36,443,632	T	A		0	3	0	374	16	4.10	365	341	48.30	48.30	Somatic	0.000	382	293	43.41	43.41	Somatic	0.000	1	
266395	4	43,458,657	C	T	KCTD8	3	_5_prime_flanking_region	1221	18	1.45	614	514	45.57	45.57	Somatic	0.000	437	365	45.51	45.51	Somatic	0.000	1		
266395	4	44,155,349	C	T		3	intronic	0	3	268	1	0.37	410	315	43.45	43.45	Somatic	0.000	287	221	43.50	43.50	Somatic	0.000	1
266395	4	63,541,472	C	A	NAAA	3	intronic	79	2	2.47	57	55	49.11	49.11	Somatic	0.000	188	147	43.88	43.88	Somatic	0.000	1		
266395	4	77,073,409	T	C		0	2	0	805	62	7.15	574	503	46.70	46.70	Somatic	0.000	410	346	45.77	45.77	Somatic	0.000	1	
266395	4	86,518,791	A	C		0	3	0	637	24	3.63	843	699	45.33	45.33	Somatic	0.000	360	347	49.08	49.08	Somatic	0.000	1	
266395	4	110,783,030	T	G	CCDC109B	2	intronic	784	63	7.44	1497	250	14.31	14.31	Somatic	0.000	512	201	28.19	28.19	Somatic	0.000	0		
266395	4	112,604,557	G	A		0	3	0	193	7	3.50	418	416	49.88	49.88	Somatic	0.000	263	226	46.22	46.22	Somatic	0.000	1	
266395	4	118,188,338	A	G	TRAM1L1	3	_3_prime_flanking_region	551	32	5.49	392	397	50.32	50.32	Somatic	0.000	297	263	46.96	46.96	Somatic	0.000	1		
266395	4	125,746,802	G	A		0	3	0	372	9	2.36	677	499	42.43	42.43	Somatic	0.000	295	220	42.72	42.72	Somatic	0.000	1	
266395	4	126,682,546	A	T	FAT4	3	_3_prime_flanking_region	561	15	2.60	506	477	48.52	48.52	Somatic	0.000	424	431	50.41	50.41	Somatic	0.000	1		
266395	4	128,273,343	C	T		0	3	0	637	24	3.63	843	699	45.33	45.33	Somatic	0.000	360	347	49.08	49.08	Somatic	0.000	1	
266395	4	132,181,397	C	T	LOC646272	3	_5_prime_flanking_region	585	12	2.01	456	243	34.76	34.76	Somatic	0.000	281	234	45.44	45.44	Somatic	0.000	0		
266395	4	136,492,542	G	A	ENSG00000207188	3	_5_prime_flanking_region	62	2	3.13	182	130	41.67	41.67	Somatic	0.000	183	145	44.21	44.21	Somatic	0.000	1		
266395	4	137,716,185	C	T		0	2	0	400	14	3.38	269	229	45.98	45.98	Somatic	0.000	293	273	48.23	48.23	Somatic	0.000	1	
266395	4	139,423,585	T	A	SLC7A11	2	intronic	46	1	2.13	57	61	51.69	51.69	Somatic	0.000	39	30	43.48	43.48	Somatic	0.000	1		
266395	4	145,369,376	C	T		0	3	0	473	21	4.25	375	302	44.61	44.61	Somatic	0.000	252	213	45.81	45.81	Somatic	0.000	1	
266395	4	146,513,010	T	C	OTUD4	3	intronic	335	15	4.29	387	429	52.57	52.57	Somatic	0.000	306	326	51.58						

266395	5	164,071,958	G	A	0	3	0	576	18	3.03	581	494	45.95	45.95	Somatic	0.000	417	415	49.88	49.88	Somatic	0.000	1
266395	5	165,820,268	C	A	0	3	0	790	37	4.47	768	743	49.17	49.17	Somatic	0.000	456	454	49.89	49.89	Somatic	0.000	1
266395	5	166,002,175	C	A	0	2	0	561	17	2.94	586	460	43.98	43.98	Somatic	0.000	372	328	46.86	46.86	Somatic	0.000	1
266395	6	900,039	T	C	LOC730397	3	5_prime_flanking_region	304	12	3.80	399	400	50.06	50.06	Somatic	0.000	347	276	44.30	44.30	Somatic	0.000	1
266395	6	5,996,224	G	A	NRN1	3	5_prime_flanking_region	606	15	2.42	517	562	52.09	52.09	Somatic	0.000	360	294	44.95	44.95	Somatic	0.000	1
266395	6	6,260,424	C	T	F13A1	3	intronic	483	12	2.42	404	344	45.99	45.99	Somatic	0.000	411	402	49.45	49.45	Somatic	0.000	1
266395	6	9,584,137	C	T	0	2	0	1427	97	6.36	962	905	48.47	48.47	Somatic	0.000	503	470	48.30	48.30	Somatic	0.000	1
266395	6	12,118,719	G	T	HIVEP1	2	5_prime_flanking_region	246	6	2.38	261	208	44.35	44.35	Somatic	0.000	307	287	48.32	48.32	Somatic	0.000	1
266395	6	23,624,936	C	T	0	3	0	163	6	3.55	224	220	49.55	49.55	Somatic	0.000	260	216	45.38	45.38	Somatic	0.000	1
266395	6	33,967,359	C	G	LOC100132252	3	3_prime_flanking_region	268	15	5.30	89	94	51.37	51.37	Somatic	0.000	336	269	44.46	44.46	Somatic	0.000	1
266395	6	44,532,555	C	T	LOC100128935	2	5_prime_flanking_region	483	26	5.11	392	336	46.15	46.15	Somatic	0.000	224	227	50.33	50.33	Somatic	0.000	1
266395	6	45,133,962	A	C	SUPT3H	3	intronic	492	21	4.09	783	649	45.32	45.32	Somatic	0.000	339	274	44.70	44.70	Somatic	0.000	1
266395	6	51,440,235	T	C	ENSG00000212532	3	3_prime_flanking_region	396	14	3.41	349	277	44.25	44.25	Somatic	0.000	253	201	44.27	44.27	Somatic	0.000	1
266395	6	54,067,267	T	G	C6orf142	3	intronic	287	19	6.21	253	215	45.94	45.94	Somatic	0.000	266	225	45.82	45.82	Somatic	0.000	1
266395	6	77,277,763	T	C	LOC643281	3	3_prime_flanking_region	175	10	5.41	278	276	49.82	49.82	Somatic	0.000	290	230	44.23	44.23	Somatic	0.000	1
266395	6	85,673,094	G	A	0	3	0	621	7	1.11	566	546	49.10	49.10	Somatic	0.000	226	210	48.17	48.17	Somatic	0.000	1
266395	6	89,065,419	C	T	ENSG00000220267	3	5_prime_flanking_region	980	46	4.48	928	868	48.33	48.33	Somatic	0.000	448	432	49.09	49.09	Somatic	0.000	1
266395	6	91,891,502	G	T	0	2	0	786	31	3.79	644	494	43.41	43.41	Somatic	0.000	367	338	47.94	47.94	Somatic	0.000	1
266395	6	95,400,882	C	T	0	3	0	632	0	0.00	864	14	1.59	1.59	Somatic	0.000	499	115	18.73	18.73	Somatic	0.000	2
266395	6	105,713,110	C	A	POPD3	1	missense	174	8	4.40	175	138	44.09	44.09	Somatic	0.000	246	211	46.17	46.17	Somatic	0.000	1
266395	6	113,767,508	C	T	0	3	0	821	5	0.61	745	615	45.22	45.22	Somatic	0.000	362	266	42.36	42.36	Somatic	0.000	1
266395	6	125,900,869	G	A	0	3	0	400	3	0.74	341	254	42.69	42.69	Somatic	0.000	344	263	43.33	43.33	Somatic	0.000	1
266395	6	133,329,889	T	C	ENSG00000213122	3	3_prime_flanking_region	244	8	3.17	447	370	45.29	45.29	Somatic	0.000	262	208	44.26	44.26	Somatic	0.000	1
266395	6	134,376,650	C	G	SLC2A12	3	intronic	325	10	2.99	522	379	42.06	42.06	Somatic	0.000	264	250	48.64	48.64	Somatic	0.000	1
266395	6	135,937,118	C	T	ENSG00000213112	3	3_prime_flanking_region	383	8	2.05	413	364	46.85	46.85	Somatic	0.000	346	292	45.77	45.77	Somatic	0.000	1
266395	6	137,632,989	G	A	0	3	0	677	32	4.51	363	305	45.66	45.66	Somatic	0.000	220	246	52.79	52.79	Somatic	0.000	1
266395	6	138,308,151	T	C	ENSG00000219463	3	5_prime_flanking_region	1695	93	5.20	1166	1159	49.85	49.85	Somatic	0.000	404	436	51.90	51.90	Somatic	0.000	1
266395	6	146,176,900	G	T	FBXO30	2	intronic	415	8	1.89	492	391	44.28	44.28	Somatic	0.000	378	325	46.23	46.23	Somatic	0.000	1
266395	6	150,184,625	C	T	LRP11	2	intronic	389	8	2.02	320	271	45.85	45.85	Somatic	0.000	316	309	49.44	49.44	Somatic	0.000	1
266395	6	162,878,522	C	T	PARK2	3	intronic	690	17	2.40	561	488	46.52	46.52	Somatic	0.000	384	322	45.61	45.61	Somatic	0.000	1
266395	6	166,045,320	A	G	PDE10A	3	5_prime_flanking_region	171	8	4.47	79	60	43.17	43.17	Somatic	0.000	344	334	49.26	49.26	Somatic	0.000	1
266395	7	14,766,804	G	A	DGKB	3	intronic	311	3	0.96	435	376	46.36	46.36	Somatic	0.000	398	285	41.73	41.73	Somatic	0.000	1
266395	7	19,322,718	C	T	0	3	0	325	16	4.69	236	195	45.24	45.24	Somatic	0.000	243	197	44.77	44.77	Somatic	0.000	1
266395	7	23,245,489	G	A	GPNNMB	2	5_prime_flanking_region	1053	56	5.05	406	367	47.29	47.29	Somatic	0.000	249	249	50.00	50.00	Somatic	0.000	1
266395	7	40,891,373	G	A	C7orf10	3	3_prime_flanking_region	374	15	3.86	405	346	46.07	46.07	Somatic	0.000	342	327	48.88	48.88	Somatic	0.000	1
266395	7	41,710,975	T	C	INHBA	2	5_prime_flanking_region	633	48	7.05	375	318	45.89	45.89	Somatic	0.000	287	309	51.85	51.85	Somatic	0.000	1
266395	7	42,368,306	C	T	0	3	0	866	27	3.02	604	436	41.92	41.92	Somatic	0.000	385	303	44.04	44.04	Somatic	0.000	1
266395	7	44,255,955	C	T	CAMK2B	2	intronic	305	0	0.00	200	5	2.44	2.44	Somatic	0.040	460	118	20.42	20.42	Somatic	0.000	2
266395	7	49,636,687	C	T	0	3	0	830	30	3.49	1210	1124	48.16	48.16	Somatic	0.000	395	304	43.49	43.49	Somatic	0.000	1
266395	7	50,762,444	A	G	GRB10	3	intronic	608	2	0.33	709	17	2.34	2.34	Somatic	0.001	482	124	20.46	20.46	Somatic	0.000	2
266395	7	51,944,112	C	A	0	3	0	710	0	0.00	789	45	5.40	5.40	Somatic	0.000	433	156	26.49	26.49	Somatic	0.000	0
266395	7	67,497,348	G	A	0	3	0	680	17	2.44	515	483	48.40	48.40	Somatic	0.000	380	354	48.23	48.23	Somatic	0.000	1
266395	7	91,954,454	T	C	PEX1	3	3_prime_untranslated_region	116	2	1.69	293	322	52.36	52.36	Somatic	0.000	170	161	48.64	48.64	Somatic	0.000	1
266395	7	104,632,275	C	A	SRPK2	3	intronic	949	50	5.01	723	643	47.07	47.07	Somatic	0.000	313	280	47.22	47.22	Somatic	0.000	1
266395	7	112,616,563	T	G	0	3	0	579	13	2.20	505	580	53.46	53.46	Somatic	0.000	353	298	45.78	45.78	Somatic	0.000	1
266395	7	113,764,441	G	A	ENSG00000218695	2	5_prime_flanking_region	191	7	3.54	237	156	39.69	39.69	Somatic	0.000	283	248	46.70	46.70	Somatic	0.000	1
266395	7	117,410,969	A	G	0	3	0	353	9	2.49	186	189	50.40	50.40	Somatic	0.000	286	303	51.44	51.44	Somatic	0.000	1
266395	7	119,505,592	A	T	0	3	0	336	15	4.27	296	262	46.95	46.95	Somatic	0.000	151	128	45.88	45.88	Somatic	0.000	1
266395	7	121,622,431	C	T	RPL31P37	3	5_prime_flanking_region	540	6	1.10	506	63	11.01	11.01	Somatic	0.000	274	110	28.65	28.65	Somatic	0.000	0
266395	7	121,918,102	T	C	CADPS2	3	intronic	63	0	0.00	442	11	2.43	2.43	Somatic	0.185	199	55	21.65	21.65	Somatic	0.000	2
266395	7	122,805,962	C	A	0	3	0	533	7	1.30	859	11	1.26	1.26	Somatic	0.665	534	151	22.04	22.04	Somatic	0.003	2
266395	7	125,518,641	C	T	GRM8	2	intronic	255	12	4.49	233	214	47.87	47.87	Somatic	0.000	294	286	49.31	49.31	Somatic	0.000	1
266395	7	126,071,188	T	C	GRM8	3	intronic	1063	68	6.01	942	797	45.83	45.83	Somatic	0.000	443	407	47.88	47.88	Somatic	0.000	1
266395	7	145,918,106	C	T	CNTNAP2	3	intronic	1029	95	8.45	801	614	43.39	43.39	Somatic	0.000	379	309	44.91	44.91	Somatic	0.000	1
266395	7	152,588,820	T	A</																			

266395	9	30,430,017	C	A	T	ENSG00000214020	0	2	3_prime_flanking_region	0	318	12	3.64	602	528	46.73	46.73	Somatic	0.000	339	220	39.36	39.36	Somatic	0.000	0
266395	9	30,927,679	C	T	C	CA9	0	3	intronic	0	182	6	3.19	363	299	46.04	46.04	Somatic	0.000	296	261	46.86	46.86	Somatic	0.000	1
266395	9	32,208,802	T	C	A	RNF38	3	5_prime_flanking_region	603	16	2.58	57	56	49.56	49.56	Somatic	0.000	322	290	47.39	47.39	Somatic	0.000	1		
266395	9	35,669,773	G	A	T	ENSG00000219957	3	5_prime_flanking_region	601	8	1.31	443	279	38.64	38.64	Somatic	0.000	385	311	44.68	44.68	Somatic	0.000	1		
266395	9	36,409,304	T	A	C	TSLS1	1	missense	369	6	1.60	327	279	46.04	46.04	Somatic	0.000	240	226	48.50	48.50	Somatic	0.000	1		
266395	9	67,834,918	C	T	G	GABBR2	3	intronic	378	6	1.56	303	20	6.19	6.19	Somatic	0.170	487	126	20.55	20.55	Somatic	0.000	0		
266395	9	89,535,224	T	G	A	SHC3	2	intronic	1897	92	4.63	1469	1258	46.13	46.13	Somatic	0.000	414	390	48.51	48.51	Somatic	0.000	1		
266395	9	90,908,623	G	A	T	PITCH1	3	5_prime_flanking_region	787	22	2.72	351	288	45.07	45.07	Somatic	0.000	315	264	45.60	45.60	Somatic	0.000	1		
266395	9	97,330,168	C	T	C	GABBR2	3	intronic	406	5	1.22	127	89	41.20	41.20	Somatic	0.000	207	180	46.51	46.51	Somatic	0.000	1		
266395	9	100,197,933	C	T	G	GABBR2	3	intronic	1249	25	1.96	748	734	49.53	49.53	Somatic	0.000	476	449	48.54	48.54	Somatic	0.000	1		
266395	9	105,224,758	G	A	T	PRRX2	0	3	3_prime_flanking_region	0	359	13	3.49	450	336	42.75	42.75	Somatic	0.000	342	284	45.37	45.37	Somatic	0.000	1
266395	9	109,348,264	G	C	ENSG00000216493	3	5_prime_flanking_region	780	11	1.39	326	301	48.01	48.01	Somatic	0.000	383	339	46.95	46.95	Somatic	0.000	1			
266395	9	122,056,927	G	A	A	MIRN147	3	5_prime_flanking_region	794	48	5.70	464	400	46.30	46.30	Somatic	0.000	314	277	46.87	46.87	Somatic	0.000	1		
266395	9	122,561,326	T	C	F	FBXW2	3	3_prime_untranslated_region	393	12	2.96	316	271	46.17	46.17	Somatic	0.000	310	318	50.64	50.64	Somatic	0.000	1		
266395	9	131,535,363	A	T	A	MED27	3	intronic	313	9	2.80	226	197	46.57	46.57	Somatic	0.000	330	249	43.01	43.01	Somatic	0.000	1		
266395	9	133,745,510	T	A	A	COL5A1	3	3_prime_untranslated_region	468	13	2.70	64	39	37.86	37.86	Somatic	0.000	199	174	46.65	46.65	Somatic	0.000	1		
266395	9	136,875,556	G	A	T	MAMDC4	1	silent	15	1	6.25	38	25	39.68	39.68	Somatic	0.012	217	186	46.15	46.15	Somatic	0.001	1		
266395	10	3,603,767	C	T	C	LOC100134102	3	5_prime_flanking_region	415	15	3.49	289	212	42.32	42.32	Somatic	0.000	302	273	47.48	47.48	Somatic	0.000	1		
266395	10	4,156,953	T	G	C	LOC731787	3	3_prime_flanking_region	494	12	2.37	1854	63	3.29	3.29	Somatic	0.475	411	119	22.45	22.45	Somatic	0.000	2		
266395	10	11,030,362	C	T	0	3	3_prime_untranslated_region	0	998	37	3.57	675	641	48.71	48.71	Somatic	0.000	335	257	43.41	43.41	Somatic	0.000	1		
266395	10	11,670,740	C	A	A	USP6NL	3	intronic	249	6	2.35	368	252	40.65	40.65	Somatic	0.000	251	187	42.69	42.69	Somatic	0.000	1		
266395	10	12,214,774	C	T	C	SEC61A2	3	intronic	525	17	3.14	311	281	47.47	47.47	Somatic	0.000	316	290	47.85	47.85	Somatic	0.000	1		
266395	10	14,654,478	A	C	F	FAM107B	3	intronic	473	9	1.87	1121	869	43.67	43.67	Somatic	0.000	386	324	45.63	45.63	Somatic	0.000	1		
266395	10	19,373,250	T	G	C	LOC100130846	3	5_prime_flanking_region	326	15	4.40	265	217	45.02	45.02	Somatic	0.000	268	237	46.93	46.93	Somatic	0.000	1		
266395	10	21,300,024	C	A	A	NEBL	2	intronic	186	6	3.13	564	454	44.60	44.60	Somatic	0.000	289	243	45.68	45.68	Somatic	0.000	1		
266395	10	34,932,764	G	A	T	HPEZ2	0	3	3_prime_untranslated_region	0	658	18	2.66	727	617	45.91	45.91	Somatic	0.000	447	412	47.96	47.96	Somatic	0.000	1
266395	10	45,273,565	G	A	A	MARCH8	3	3_prime_untranslated_region	558	3	0.53	706	9	1.26	1.26	Somatic	0.323	500	118	19.09	19.09	Somatic	0.000	2		
266395	10	46,461,650	G	A	A	PPYR1	2	5_prime_flanking_region	443	4	0.89	1284	13	1.00	1.00	Somatic	0.536	902	61	6.33	6.33	Somatic	0.000	0		
266395	10	48,121,263	G	A	A	ENSG0000021361	3	5_prime_flanking_region	717	32	4.27	307	215	41.19	41.19	Somatic	0.000	305	299	49.50	49.50	Somatic	0.000	1		
266395	10	58,815,611	G	A	T	CTFAM	3	intronic	198	0	0.00	316	8	2.47	2.47	Somatic	0.021	404	94	18.88	18.88	Somatic	0.000	2		
266395	10	65,639,660	C	T	C	LOC100129267	3	5_prime_flanking_region	509	22	4.14	665	596	47.26	47.26	Somatic	0.000	453	399	46.83	46.83	Somatic	0.000	1		
266395	10	82,288,101	G	A	A	SH2D4B	1	missense	183	1	0.54	445	13	2.84	2.84	Somatic	0.056	416	103	19.85	19.85	Somatic	0.000	2		
266395	10	91,891,008	T	G	C	ENSG00000222451	2	3_prime_flanking_region	377	16	4.07	491	56	10.24	10.24	Somatic	0.111	397	140	26.07	26.07	Somatic	0.000	0		
266395	10	100,872,010	T	C	G	HPEZ2	3	intronic	43	0	0.00	180	4	2.17	2.17	Somatic	0.423	149	48	24.37	24.37	Somatic	0.000	2		
266395	10	106,996,776	C	A	A	SORCS3	3	intronic	502	14	2.71	390	343	46.79	46.79	Somatic	0.000	388	367	48.61	48.61	Somatic	0.000	1		
266395	10	118,418,794	A	G	C	C10orf82	3	intronic	296	15	4.82	185	180	49.32	49.32	Somatic	0.000	225	195	46.43	46.43	Somatic	0.000	1		
266395	10	121,026,998	A	C	G	GRKS	3	intronic	638	55	7.94	451	85	15.86	15.86	Somatic	0.008	247	168	40.48	40.48	Somatic	0.000	0		
266395	10	122,679,947	C	T	B	BRWD2	3	5_prime_flanking_region	526	14	2.59	534	455	46.01	46.01	Somatic	0.000	424	369	46.53	46.53	Somatic	0.000	1		
266395	10	131,344,480	G	A	A	MGMT	3	intronic	917	22	2.34	294	264	47.31	47.31	Somatic	0.000	287	294	50.60	50.60	Somatic	0.000	1		
266395	10	132,932,645	C	T	C	TCERG1L	3	intronic	431	15	3.36	201	170	45.82	45.82	Somatic	0.000	243	196	44.65	44.65	Somatic	0.000	1		
266395	10	133,590,997	C	G	G	PPR2D	3	5_prime_flanking_region	678	38	5.31	344	370	51.82	51.82	Somatic	0.000	293	274	48.32	48.32	Somatic	0.000	1		
266395	11	9,492,873	A	G	Z	ZNF143	3	intronic	1415	23	1.60	986	32	3.14	3.14	Somatic	0.281	616	124	16.76	16.76	Somatic	0.000	0		
266395	11	12,198,538	C	G	A	MICAL2	1	missense	578	15	2.53	507	19	3.61	3.61	Somatic	0.416	474	63	11.73	11.73	Somatic	0.006	0		
266395	11	12,297,694	T	G	C	MICALCL	2	intronic	468	36	7.14	648	119	15.51	15.51	Somatic	0.003	316	98	23.67	23.67	Somatic	0.000	0		
266395	11	22,340,860	G	T	C	SLC17A6	1	splice_site	741	11	1.46	556	443	44.34	44.34	Somatic	0.000	386	337	46.61	46.61	Somatic	0.000	1		
266395	11	24,275,763	C	T	0	3	3_prime_flanking_region	0	342	11	3.12	405	312	43.51	43.51	Somatic	0.000	282	241	46.08	46.08	Somatic	0.000	1		
266395	11	27,187,819	C	G	T	0	2	3_prime_flanking_region	0	1307	66	4.81	597	491	45.13	45.13	Somatic	0.000	375	286	43.27	43.27	Somatic	0.000	1	
266395	11	30,881,639	A	G	A	DCCDS	1	silent	400	9	2.20	643	545	45.88	45.88	Somatic	0.000	357	320	47.27	47.27	Somatic	0.000	1		
266395	11	65,523,582	C	G	E	EIF1AD	3	intronic	1168	28	2.34	273	230	45.73	45.73	Somatic	0.000	371	376	50.33	50.33	Somatic	0.000	1		
266395	11	70,869,608	G	A	A	NADSYN1	3	intronic	205	12	5.53	104	114	52.29	52.29	Somatic	0.000	278	239	46.23	46.23	Somatic	0.000	1		
266395	11	88,164,936	A	T	G	GRMS	3	intronic	334	11	3.19	412	363	46.84	46.84	Somatic	0.000	246	235	48.86	48.86	Somatic	0.000	1		
266395	11	96,540,220	G	A	T	ENSG00000199217	0	3	3_prime_flanking_region	0	750	0	0.00	1293	25	1.90	1.90	Somatic	0.000	567	133	19.00	19.00	Somatic	0.000	2
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266395	14	32,863,416	T	C	NPAS3	2	intronic	547	16	2.84	671	616	47.86	47.86	Somatic	0.000	348	318	47.75	47.75	Somatic	0.000	1	
266395	14	42,520,196	A	T		0	3	0	240	12	4.76	233	194	45.43	45.43	Somatic	0.000	232	212	47.75	47.75	Somatic	0.000	1
266395	14	43,259,343	C	A		0	3	0	298	10	3.25	331	242	42.23	42.23	Somatic	0.000	261	252	49.12	49.12	Somatic	0.000	1
266395	14	43,940,576	A	T	LOC729165	3	_3_prime_flanking_region	96	5	4.95	103	70	40.46	40.46	Somatic	0.000	173	124	41.75	41.75	Somatic	0.000	1	
266395	14	45,179,799	G	A		0	2	0	497	11	2.17	490	362	42.49	42.49	Somatic	0.000	295	257	46.56	46.56	Somatic	0.000	1
266395	14	47,634,587	C	G		0	2	0	992	32	3.13	1125	899	44.42	44.42	Somatic	0.000	379	389	50.65	50.65	Somatic	0.000	1
266395	14	49,219,295	A	T	POLE2	3	intronic	102	1	0.97	85	88	50.87	50.87	Somatic	0.000	179	187	51.09	51.09	Somatic	0.000	1	
266395	14	69,096,682	A	C	LOC100130174	2	_3_prime_flanking_region	443	85	16.10	311	117	27.34	27.34	Somatic	0.000	314	215	40.64	40.64	Somatic	0.000	0	
266395	14	69,239,804	G	A	KIAO247	3	intronic	567	37	6.13	402	325	44.70	44.70	Somatic	0.000	352	273	43.68	43.68	Somatic	0.000	1	
266395	14	75,418,958	G	A	TTLL5	1	missense	303	9	2.88	258	256	49.81	49.81	Somatic	0.000	289	261	47.45	47.45	Somatic	0.000	1	
266395	14	80,669,474	G	A	TSHZ	2	intronic	542	28	4.91	408	330	44.72	44.72	Somatic	0.000	375	313	45.49	45.49	Somatic	0.000	1	
266395	14	86,938,324	C	T		0	3	0	255	0	0.00	583	20	3.32	3.32	Somatic	0.001	432	121	21.88	21.88	Somatic	0.000	2
266395	14	91,505,353	G	A	FBLN5	2	_5_prime_flanking_region	349	25	6.68	561	56	9.08	9.08	Somatic	0.544	409	136	24.95	24.95	Somatic	0.000	0	
266395	14	95,369,238	C	T	LOC730125	3	_5_prime_flanking_region	493	7	1.40	626	522	45.47	45.47	Somatic	0.000	407	358	46.80	46.80	Somatic	0.000	1	
266395	14	98,438,420	A	T		0	3	0	1424	59	3.98	491	450	47.82	47.82	Somatic	0.000	361	363	50.14	50.14	Somatic	0.000	1
266395	14	100,771,639	C	G		0	2	0	242	3	1.22	60	57	48.72	48.72	Somatic	0.000	110	111	50.23	50.23	Somatic	0.000	1
266395	14	103,846,656	T	A	LOC100131034	2	_3_prime_flanking_region	180	1	0.55	68	67	49.63	49.63	Somatic	0.000	340	297	46.62	46.62	Somatic	0.000	1	
266395	15	18,435,184	C	T	VSIG7	3	_5_prime_flanking_region	289	16	5.25	217	114	34.44	34.44	Somatic	0.000	284	224	44.09	44.09	Somatic	0.000	0	
266395	15	25,956,026	G	A	OCA2	3	intronic	982	27	2.68	338	279	45.22	45.22	Somatic	0.000	349	375	51.80	51.80	Somatic	0.000	1	
266395	15	27,762,153	G	A	ENSG00000212769	3	_5_prime_flanking_region	123	4	3.15	71	69	49.29	49.29	Somatic	0.000	243	227	48.30	48.30	Somatic	0.000	1	
266395	15	31,122,283	A	T	FMN1	3	intronic	91	3	3.19	104	9	7.96	7.96	Somatic	0.026	256	38	12.93	12.93	Somatic	0.001	0	
266395	15	35,751,548	T	C		0	2	0	607	9	1.46	639	543	45.94	45.94	Somatic	0.000	388	360	48.13	48.13	Somatic	0.000	1
266395	15	35,928,644	G	A		0	3	0	830	18	2.12	1006	914	47.60	47.60	Somatic	0.000	399	379	48.71	48.71	Somatic	0.000	1
266395	15	40,101,234	C	T	PLA2G4E	3	intronic	223	11	4.70	83	72	46.45	46.45	Somatic	0.000	153	136	47.06	47.06	Somatic	0.000	1	
266395	15	47,739,162	C	T	C15orf33	3	_5_prime_flanking_region	833	4	0.48	1244	25	1.97	1.97	Somatic	0.002	503	135	21.16	21.16	Somatic	0.000	2	
266395	15	50,336,360	C	A	MYOSC	3	intronic	187	1	0.53	215	163	43.12	43.12	Somatic	0.000	285	227	44.34	44.34	Somatic	0.000	1	
266395	15	58,766,926	G	C	RORA	3	intronic	267	7	2.55	309	361	53.88	53.88	Somatic	0.000	292	298	50.51	50.51	Somatic	0.000	0	
266395	15	68,465,810	A	C		0	2	0	365	0	0.00	312	6	1.89	1.89	Somatic	0.009	502	136	21.32	21.32	Somatic	0.000	2
266395	15	73,354,279	G	C	LOC730036	3	_5_prime_flanking_region	776	4	0.51	542	134	19.82	19.82	Somatic	0.000	833	182	17.93	17.93	Somatic	0.000	0	
266395	15	84,663,238	C	T	AGBL1	3	intronic	704	37	4.99	511	501	49.51	49.51	Somatic	0.000	347	269	43.67	43.67	Somatic	0.000	1	
266395	15	85,748,727	C	A		0	3	0	855	26	2.95	1790	1517	45.87	45.87	Somatic	0.000	421	359	46.03	46.03	Somatic	0.000	1
266395	15	99,605,527	T	C	CHSY1	3	intronic	386	17	4.22	339	348	50.66	50.66	Somatic	0.000	479	396	45.26	45.26	Somatic	0.000	1	
266395	16	4,409,599	C	T	COR07	3	_5_prime_flanking_region	579	2	0.34	224	3	1.32	1.32	Somatic	1.000	538	41	7.08	7.08	Somatic	0.003	0	
266395	16	6,155,641	C	G	A2BP1	3	intronic	881	28	3.08	775	677	46.63	46.63	Somatic	0.000	469	415	46.95	46.95	Somatic	0.000	1	
266395	16	7,716,860	C	T	ENSG00000209555	1	rna	397	17	4.11	487	430	46.89	46.89	Somatic	0.000	377	335	47.05	47.05	Somatic	0.000	1	
266395	16	8,850,511	T	C	LOC100132944	3	_5_prime_untranslated_region	368	12	3.16	991	75	7.04	7.04	Somatic	0.006	317	41	11.45	11.45	Somatic	0.000	0	
266395	16	9,302,727	C	T		0	3	0	1114	25	2.19	846	782	48.03	48.03	Somatic	0.000	472	184	48.92	48.92	Somatic	0.000	1
266395	16	10,149,701	A	G	GRIN2A	3	intronic	579	29	4.77	354	310	46.69	46.69	Somatic	0.000	211	190	47.38	47.38	Somatic	0.000	1	
266395	16	14,074,440	A	T	MKL2	3	intronic	145	8	5.23	269	246	47.77	47.77	Somatic	0.000	211	234	52.58	52.58	Somatic	0.000	1	
266395	16	26,024,776	G	A	HS3ST4	3	intronic	942	20	2.08	567	538	48.69	48.69	Somatic	0.000	331	291	46.78	46.78	Somatic	0.000	1	
266395	16	26,732,330	G	T		0	2	0	2087	1	0.05	3254	72	2.16	2.16	Somatic	0.000	773	225	22.55	22.55	Somatic	0.000	2
266395	16	50,030,298	C	T		0	3	0	509	19	3.60	423	331	43.90	43.90	Somatic	0.000	388	333	46.19	46.19	Somatic	0.000	1
266395	16	50,680,429	C	T	LOC388276	3	_5_prime_flanking_region	368	15	3.92	295	298	50.25	50.25	Somatic	0.000	284	251	46.92	46.92	Somatic	0.000	1	
266395	16	51,518,521	T	A	LOC390730	3	_5_prime_flanking_region	416	11	2.58	223	190	46.00	46.00	Somatic	0.000	232	184	44.23	44.23	Somatic	0.000	1	
266395	16	57,441,427	T	G		0	3	0	251	17	6.34	218	31	12.45	12.45	Somatic	0.005	341	135	28.36	28.36	Somatic	0.000	0
266395	16	57,599,867	C	T		0	3	0	281	4	1.40	247	215	46.54	46.54	Somatic	0.000	282	247	46.69	46.69	Somatic	0.000	1
266395	16	59,855,653	G	C		0	3	0	455	0	0.00	927	27	2.83	2.83	Somatic	0.000	454	130	22.26	22.26	Somatic	0.000	2
266395	16	63,589,987	C	T	CDH11	1	missense	1112	39	3.39	806	689	46.09	46.09	Somatic	0.000	364	333	47.78	47.78	Somatic	0.000	1	
266395	16	74,512,157	C	T		0	2	0	434	7	1.59	366	318	46.49	46.49	Somatic	0.000	337	325	49.09	49.09	Somatic	0.000	1
266395	16	77,161,670	G	A	WWOX	3	intronic	160	3	1.84	156	115	42.44	42.44	Somatic	0.000	201	177	46.83	46.83	Somatic	0.000	1	
266395	16	77,367,408	G	A	WWOX	3	intronic	811	40	4.70	637	514	44.66	44.66	Somatic	0.000	404	347	46.21	46.21	Somatic	0.000	1	
266395	16	78,207,037	C	A	MAF	3	_5_prime_flanking_region	996	36	3.49	546	483	46.94	46.94	Somatic	0.000	405	425	51.20	51.20	Somatic	0.000	1	
266395	16	81,204,189	C	T	CDH13	2	_5_prime_flanking_region	855	36	4.04	593	510	46.24	46.24	Somatic	0.000	425	399	48.42	48.42	Somatic	0.000	1	
266395	16	81,731,917	C	T	CDH13	3	intronic	1040	2	0.19	1218	23	1.85	1.85	Somatic	0.000	519	136	20.76	20.76	Somatic	0.000	2	

266395	18	64,226,339	T	G	0	3	0	422	41	8.86	925	162	14.90	14.90	Somatic	0.798	394	216	35.41	35.41	Somatic	0.005	0
266395	18	67,103,868	C	T	0	3	0	226	12	5.04	256	251	49.51	49.51	Somatic	0.000	262	232	46.96	46.96	Somatic	0.000	1
266395	18	67,787,857	G	A	0	3	0	142	5	3.40	165	127	43.49	43.49	Somatic	0.000	194	173	47.14	47.14	Somatic	0.000	1
266395	18	69,657,558	A	G	0	3	0	771	52	6.32	682	675	49.74	49.74	Somatic	0.000	372	324	46.55	46.55	Somatic	0.000	1
266395	18	70,624,608	A	G	ZNF407	2	intronic	258	4	1.53	494	472	48.86	48.86	Somatic	0.000	327	311	48.75	48.75	Somatic	0.000	1
266395	18	74,833,430	C	T	SALL3	3	5_prime_flanking_region	94	5	5.05	17	37	68.52	68.52	Somatic	0.000	242	215	47.05	47.05	Somatic	0.000	0
266395	19	16,885,826	C	T	CPAMD8	3	intronic	524	11	2.06	146	150	50.68	50.68	Somatic	0.000	293	250	46.04	46.04	Somatic	0.000	1
266395	19	18,513,222	G	A	FKBP8	3	intronic	396	23	5.49	88	72	45.00	45.00	Somatic	0.000	204	228	52.78	52.78	Somatic	0.000	1
266395	19	19,045,292	G	A	SLC25A42	3	intronic	1127	38	3.26	119	94	44.13	44.13	Somatic	0.000	391	312	44.38	44.38	Somatic	0.000	1
266395	19	20,320,043	C	T	ZNF826	3	3_prime_flanking_region	75	4	5.05	58	64	52.46	52.46	Somatic	0.000	86	73	45.91	45.91	Somatic	0.000	1
266395	19	39,677,436	C	T	WTIP	3	intronic	270	10	3.57	147	107	42.13	42.13	Somatic	0.000	232	223	49.01	49.01	Somatic	0.000	1
266395	19	48,741,326	C	T	XRCC1	3	intronic	1207	60	4.74	248	178	41.78	41.78	Somatic	0.000	358	293	45.01	45.01	Somatic	0.000	1
266395	19	49,554,552	C	G	ZFP112	3	5_prime_flanking_region	278	4	1.42	327	262	44.48	44.48	Somatic	0.000	217	183	45.75	45.75	Somatic	0.000	1
266395	19	53,579,461	T	G	KDEL1	1	missense	1035	149	12.58	184	34	15.60	15.60	Somatic	0.079	375	212	36.12	36.12	Somatic	0.000	0
266395	19	54,349,852	A	G	HRC	1	missense	404	11	2.65	335	20	5.63	5.63	Somatic	0.396	330	57	14.73	14.73	Somatic	0.000	0
266395	19	56,489,635	G	A	IGLON5	3	5_prime_flanking_region	354	16	4.32	177	153	46.36	46.36	Somatic	0.000	263	267	50.38	50.38	Somatic	0.000	1
266395	19	61,964,333	C	G	ZIM2	2	3_prime_flanking_region	1141	36	3.06	765	672	46.76	46.76	Somatic	0.000	304	285	48.39	48.39	Somatic	0.000	1
266395	20	2,498,536	G	A	TMC2	3	intronic	320	9	2.74	175	156	47.13	47.13	Somatic	0.000	251	197	43.97	43.97	Somatic	0.000	1
266395	20	3,953,163	T	C	RNF24	3	5_prime_flanking_region	239	4	1.65	192	1	0.52	0.52	Reference	1.000	251	43	14.63	14.63	Somatic	0.000	0
266395	20	10,400,224	T	G	C20orf94	3	intronic	405	19	4.48	834	90	9.74	9.74	Somatic	0.505	457	166	26.65	26.65	Somatic	0.000	0
266395	20	24,021,637	C	T	0	3	0	936	28	2.90	372	295	44.23	44.23	Somatic	0.000	435	395	47.59	47.59	Somatic	0.000	1
266395	20	32,728,482	A	C	PIGU	1	missense	212	5	2.30	62	44	41.51	41.51	Somatic	0.000	113	92	44.88	44.88	Somatic	0.000	1
266395	20	32,965,857	A	C	ACSS2	1	missense	804	94	10.47	672	133	16.52	16.52	Somatic	0.828	305	153	33.41	33.41	Somatic	0.000	0
266395	20	39,133,828	A	G	TOP1	3	intronic	670	53	7.33	825	734	47.08	47.08	Somatic	0.000	394	358	47.61	47.61	Somatic	0.000	1
266395	20	40,082,860	C	T	ENSG00000220309	3	5_prime_flanking_region	1120	28	2.44	499	418	45.58	45.58	Somatic	0.000	382	341	47.16	47.16	Somatic	0.000	1
266395	20	51,626,823	T	C	ZNF217	1	silent	552	15	2.65	209	181	46.41	46.41	Somatic	0.000	312	256	45.07	45.07	Somatic	0.000	1
266395	20	53,344,924	C	T	0	3	0	370	32	7.96	453	423	48.29	48.29	Somatic	0.000	280	231	45.21	45.21	Somatic	0.000	1
266395	20	61,146,741	C	T	C20orf51	2	intronic	379	10	2.57	228	243	51.59	51.59	Somatic	0.000	278	266	48.90	48.90	Somatic	0.000	1
266395	21	26,646,726	G	A	0	3	0	215	0	0.00	385	9	2.28	2.28	Somatic	0.018	522	137	20.79	20.79	Somatic	0.000	2
266395	21	30,459,290	C	T	CLDN8	3	3_prime_flanking_region	370	16	4.15	921	766	45.41	45.41	Somatic	0.000	354	330	48.25	48.25	Somatic	0.000	1
266395	21	41,416,902	G	A	BACE2	3	5_prime_flanking_region	1038	32	2.99	664	560	45.75	45.75	Somatic	0.000	399	339	45.93	45.93	Somatic	0.000	1
266395	21	42,402,818	A	C	UMODL1	1	missense	84	8	8.70	65	8	10.96	10.96	Somatic	0.577	161	75	31.78	31.78	Somatic	0.000	0
266395	21	43,397,525	G	A	U2AF1	1	missense	404	30	6.91	91	83	47.70	47.70	Somatic	0.000	343	317	48.03	48.03	Somatic	0.000	1
266395	21	46,252,211	C	T	COL6A1	2	3_prime_flanking_region	92	1	1.08	89	67	42.95	42.95	Somatic	0.000	213	170	44.39	44.39	Somatic	0.000	1
266395	21	46,301,845	G	T	COL6A2	2	5_prime_flanking_region	46	0	0.00	11	2	15.38	15.38	Reference	0.041	251	182	42.03	42.03	Somatic	0.000	0
266395	22	18,187,764	C	T	GNB1L	3	intronic	387	7	1.78	104	92	46.94	46.94	Somatic	0.000	223	211	48.62	48.62	Somatic	0.000	1
266395	22	19,294,334	C	G	ENSG00000220150	3	5_prime_flanking_region	265	25	8.62	128	119	48.18	48.18	Somatic	0.000	360	298	45.29	45.29	Somatic	0.000	1
266395	22	20,866,781	G	A	IGLV11-55	3	5_prime_flanking_region	328	21	6.02	185	239	56.37	56.37	Somatic	0.000	165	156	48.60	48.60	Somatic	0.000	0
266395	22	36,194,879	A	C	ELFN2	3	5_prime_flanking_region	735	74	9.15	291	56	16.14	16.14	Somatic	0.000	502	195	27.98	27.98	Somatic	0.000	0
266395	22	38,089,713	T	C	SYNGR1	3	intronic	954	46	4.60	97	89	47.85	47.85	Somatic	0.000	145	139	48.94	48.94	Somatic	0.000	1
266395	22	46,395,195	C	T	FLJ4625	3	3_prime_flanking_region	378	10	2.58	137	111	44.76	44.76	Somatic	0.000	302	308	50.49	50.49	Somatic	0.000	1
266395	22	46,512,620	A	G	0	3	0	471	11	2.28	526	17	3.13	3.13	Somatic	0.421	431	115	21.06	21.06	Somatic	0.000	2
266395	X	3,387,861	G	A	0	3	0	375	0	0.00	362	21	5.48	2.74	Somatic	0.000	167	112	40.14	40.14	Somatic	0.000	2
266395	X	29,779,410	G	A	IL1RAP1	2	intronic	121	6	4.72	21	384	94.81	47.41	Somatic	0.000	19	292	93.89	93.89	Somatic	0.000	1
266395	X	32,777,396	C	T	DMD	3	intronic	414	38	8.41	31	496	44.12	47.06	Somatic	0.000	21	292	93.29	93.29	Somatic	0.000	1
266395	X	34,705,765	A	G	0	3	0	217	29	11.79	7	287	97.62	48.81	Somatic	0.000	12	311	96.28	96.28	Somatic	0.000	1
266395	X	39,157,340	A	G	FAM156B	3	5_prime_flanking_region	226	11	4.64	18	368	95.34	47.67	Somatic	0.000	14	282	95.27	95.27	Somatic	0.000	1
266395	X	52,897,186	C	T	0	3	0	219	25	10.25	34	461	93.13	46.57	Somatic	0.000	11	396	97.30	97.30	Somatic	0.000	1
266395	X	104,353,541	G	C	IL1RAP2	3	intronic	642	64	9.07	61	841	93.24	46.62	Somatic	0.000	21	412	95.15	95.15	Somatic	0.000	1
266395	X	111,088,560	G	A	TRPC5	3	intronic	253	11	4.17	39	584	93.74	46.87	Somatic	0.000	15	321	95.54	95.54	Somatic	0.000	1
266395	X	116,699,743	C	A	PAX7	3	intronic	1276	1	0.08	111	8	6.72	6.72	Somatic	0.000	383	72	15.82	15.82	Somatic	0.000	2
266395	X	20,318,191	C	T	PLA2G2D	3	intronic	1633	2	0.12	993	55	5.25	5.25	Somatic	0.000	1031	163	13.65	13.65	Somatic	0.000	2
266395	X	29,267,643	T	C	EPB41	3	intronic	623	13	2.04	242	195	44.62	44.62	Somatic	0.000	387	336	46.47	46.47	Somatic	0.000	1
266395	X	79,256,285	G	A	ELT01	3	5_prime_flanking_region	558	1	0.18	499	18	3.48	3.48	Somatic	0.000	481	96	16.64	16.64	Somatic	0.000	2
266395	X	82,177,475	T	C	LPHN2	3	intronic	498	8	1.58	481	389	44.71										

288033	2	126,053,619	G	T	0	3	0	715	7	0.97	459	291	38.80	38.80	Somatic	0.000	514	430	45.55	45.55	Somatic	0.000	1	
288033	2	135,260,857	C	T	0	2	0	725	16	2.16	564	490	46.49	46.49	Somatic	0.000	377	378	50.07	50.07	Somatic	0.000	1	
288033	2	139,713,493	A	G	0	3	0	798	19	2.33	433	342	44.13	44.13	Somatic	0.000	478	373	43.83	43.83	Somatic	0.000	1	
288033	2	147,378,217	G	T	0	2	0	779	13	1.64	282	289	50.61	50.61	Somatic	0.000	256	237	48.07	48.07	Somatic	0.000	1	
288033	2	156,525,780	G	A	0	2	0	1127	20	1.74	466	383	45.11	45.11	Somatic	0.000	620	518	45.52	45.52	Somatic	0.000	1	
288033	2	159,096,874	G	A	PKP4	3	intronic	394	6	1.50	193	128	39.88	39.88	Somatic	0.000	265	264	49.91	49.91	Somatic	0.000	1	
288033	2	182,980,091	G	A	PDE1A	3	intronic	601	7	1.15	241	139	36.58	36.58	Somatic	0.000	362	249	40.75	40.75	Somatic	0.000	0	
288033	2	193,068,361	C	T	0	3	0	878	5	0.57	726	150	17.12	17.12	Somatic	0.000	931	279	23.06	23.06	Somatic	0.000	0	
288033	2	214,566,951	C	T	SPAG16	3	intronic	615	12	1.91	641	488	43.22	43.22	Somatic	0.000	399	428	51.75	51.75	Somatic	0.000	1	
288033	2	224,249,033	T	A	LOC646696	3	5_prime_flanking_region	367	2	0.54	282	212	42.91	42.91	Somatic	0.000	188	146	43.71	43.71	Somatic	0.000	1	
288033	2	227,876,058	C	T	COL4A3	1	missense	278	0	0.00	232	9	3.73	3.73	Somatic	0.001	283	65	18.68	18.68	Somatic	0.000	2	
288033	2	237,923,516	G	A	COL6A3	2	intronic	425	0	0.00	238	13	5.18	5.18	Somatic	0.000	365	77	17.42	17.42	Somatic	0.000	2	
288033	3	2,956,946	G	T	CNTN4	3	intronic	1652	11	0.66	527	427	44.76	44.76	Somatic	0.000	628	505	44.57	44.57	Somatic	0.000	1	
288033	3	7,864,364	G	A	0	3	0	809	14	1.70	663	508	43.38	43.38	Somatic	0.000	509	364	41.70	41.70	Somatic	0.000	1	
288033	3	10,851,311	C	T	SLC6A11	2	intronic	1137	19	1.64	336	235	41.16	41.16	Somatic	0.000	495	442	47.17	47.17	Somatic	0.000	1	
288033	3	30,277,684	A	G	ENSG00000199927	3	3_prime_flanking_region	616	6	0.96	503	510	50.35	50.35	Somatic	0.000	367	317	46.35	46.35	Somatic	0.000	1	
288033	3	39,779,332	G	C	MYRIP	3	5_prime_flanking_region	887	25	2.74	437	437	50.00	50.00	Somatic	0.000	500	406	44.81	44.81	Somatic	0.000	1	
288033	3	43,211,047	G	T	ENSG00000210474	3	5_prime_flanking_region	1821	30	1.62	543	495	47.69	47.69	Somatic	0.000	394	392	49.87	49.87	Somatic	0.000	1	
288033	3	51,384,214	G	A	DOCK3	2	intronic	819	15	1.80	239	206	46.29	46.29	Somatic	0.000	329	264	44.52	44.52	Somatic	0.000	1	
288033	3	55,321,722	C	T	0	3	0	1108	20	1.77	686	642	48.56	48.56	Somatic	0.000	666	546	45.05	45.05	Somatic	0.000	1	
288033	3	86,148,138	T	A	CADM2	3	intronic	354	0	0.00	191	27	12.39	12.39	Somatic	0.000	567	80	12.36	12.36	Somatic	0.000	0	
288033	3	87,138,573	A	G	VGLL3	3	5_prime_flanking_region	729	1	0.14	358	18	4.79	4.79	Somatic	0.000	654	105	13.83	13.83	Somatic	0.000	2	
288033	3	95,532,599	G	T	CDGAP	2	5_prime_flanking_region	385	8	2.04	243	215	46.94	46.94	Somatic	0.000	213	212	49.88	49.88	Somatic	0.000	1	
288033	3	120,481,060	C	T	KALRN	3	intronic	1302	9	0.69	2149	244	10.20	10.20	Somatic	0.000	1273	90	6.60	6.60	Somatic	0.000	0	
288033	3	136,688,044	A	T	PAQR9	3	5_prime_flanking_region	693	0	0.00	248	8	3.12	3.12	Somatic	0.000	643	78	10.82	10.82	Somatic	0.000	0	
288033	3	144,175,019	C	A	0	3	0	581	11	1.86	421	354	45.68	45.68	Somatic	0.000	413	374	47.52	47.52	Somatic	0.000	1	
288033	3	144,702,265	A	C	SLC9A9	3	intronic	81	0	0.00	52	56	51.85	51.85	Somatic	0.000	121	112	48.07	48.07	Somatic	0.000	1	
288033	3	163,025,637	T	C	0	3	0	557	17	2.96	306	272	47.06	47.06	Somatic	0.000	289	282	49.39	49.39	Somatic	0.000	1	
288033	3	171,655,622	G	A	CLDN11	3	3_prime_flanking_region	411	1	0.24	348	15	4.13	4.13	Somatic	0.000	621	116	15.74	15.74	Somatic	0.000	2	
288033	3	181,618,736	C	T	0	3	0	436	8	1.80	405	249	38.07	38.07	Somatic	0.000	384	340	46.96	46.96	Somatic	0.000	1	
288033	3	183,152,681	A	G	0	3	0	765	11	1.42	347	293	45.78	45.78	Somatic	0.000	334	301	47.40	47.4	Somatic	0.000	1	
288033	4	27,060,540	T	C	0	3	0	306	10	3.16	357	336	48.48	48.48	Somatic	0.000	364	354	49.30	49.3	Somatic	0.000	1	
288033	4	34,824,359	T	C	0	3	0	488	0	0.00	483	34	6.58	6.58	Somatic	0.000	435	87	16.67	16.67	Somatic	0.000	2	
288033	4	43,548,379	G	A	LOC402175	2	5_prime_flanking_region	833	0	0.00	516	31	5.67	5.67	Somatic	0.000	618	103	14.29	14.29	Somatic	0.000	2	
288033	4	46,676,633	G	A	GABRA4	3	intronic	871	19	2.13	692	633	47.77	47.77	Somatic	0.000	480	464	49.15	49.15	Somatic	0.000	1	
288033	4	64,283,300	C	A	0	3	0	820	1	0.12	675	9	1.32	1.32	Somatic	0.005	703	29	3.96	3.96	Somatic	0.000	0	
288033	4	82,139,597	G	A	BMP3	3	5_prime_flanking_region	1026	0	0.00	792	45	5.38	5.38	Somatic	0.000	435	73	14.37	14.37	Somatic	0.000	2	
288033	4	85,025,634	C	T	0	3	0	1114	24	2.11	1093	1047	48.93	48.93	Somatic	0.000	855	750	46.73	46.73	Somatic	0.000	1	
288033	4	96,619,662	G	A	UNCSC	2	intronic	1050	17	1.59	953	819	46.22	46.22	Somatic	0.000	695	587	45.79	45.79	Somatic	0.000	1	
288033	4	103,830,842	G	A	MANBA	1	missense	667	15	2.20	504	436	46.38	46.38	Somatic	0.000	386	308	44.38	44.38	Somatic	0.000	1	
288033	4	116,713,515	C	T	0	3	0	550	9	1.61	386	285	42.47	42.47	Somatic	0.000	340	266	43.89	43.89	Somatic	0.000	1	
288033	4	120,613,279	G	T	LOC645513	3	intronic	811	11	1.34	593	495	45.50	45.50	Somatic	0.000	573	474	45.27	45.27	Somatic	0.000	1	
288033	4	126,513,577	G	A	LOC646696	0	3	0	461	0	0.00	448	28	5.88	5.88	Somatic	0.000	459	87	15.93	15.93	Somatic	0.000	2
288033	4	138,794,512	A	G	0	3	0	214	4	1.83	102	105	50.72	50.72	Somatic	0.000	348	324	48.21	48.21	Somatic	0.000	1	
288033	5	8,956,520	G	A	0	2	0	1136	3	0.26	2343	148	5.94	5.94	Somatic	0.000	1244	250	16.73	16.73	Somatic	0.000	2	
288033	5	15,415,826	G	A	0	3	0	810	13	1.58	411	356	46.41	46.41	Somatic	0.000	414	409	49.70	49.7	Somatic	0.000	1	
288033	5	19,094,293	C	A	0	3	0	667	15	2.20	770	685	47.08	47.08	Somatic	0.000	480	436	47.60	47.6	Somatic	0.000	1	
288033	5	19,380,745	A	C	0	3	0	322	0	0.00	392	22	5.31	5.31	Somatic	0.000	425	74	14.83	14.83	Somatic	0.000	2	
288033	5	25,475,266	A	C	0	3	0	839	25	2.89	394	407	50.81	50.81	Somatic	0.000	370	329	47.07	47.07	Somatic	0.000	1	
288033	5	50,469,982	A	T	ENSG00000206606	3	3_prime_flanking_region	1063	1	0.09	969	35	3.49	3.49	Somatic	0.000	798	141	15.02	15.02	Somatic	0.000	2	
288033	5	50,538,265	C	T	ENSG00000206606	3	5_prime_flanking_region	243	13	5.08	338	268	44.22	44.22	Somatic	0.000	350	325	48.15	48.15	Somatic	0.000	1	
288033	5	50,558,816	C	T	ENSG00000213950	2	5_prime_flanking_region	697	13	1.83	586	518	46.92	46.92	Somatic	0.000	479	345	41.87	41.87	Somatic	0.000	1	
288033	5	65,911,575	G	A	MAST4	2	5_prime_flanking_region	1113	19	1.68	734	613	45.51	45.51	Somatic	0.000	487	418	46.19	46.19	Somatic	0.000	1	
288033	5	72,206,533	A	G	TNP01	3	intronic	633	16	2.47	587	470	44.47	44.47	Somatic	0.000	466	424	47.64	47.64	Somatic	0.000	1	
288033	5	85,091,117	T	A	0	3	0	393	8	2.00	221	185	45.57	45.57										

288033	6	137,016,459	G	T	MAP3K5	3	intronic	523	4	0.76	370	251	40.42	40.42	Somatic	0.000	362	270	42.72	42.72	Somatic	0.000	1
288033	6	169,043,761	C	T	DGKB	3	intronic	1215	29	2.33	171	134	43.93	43.93	Somatic	0.000	458	342	42.75	42.75	Somatic	0.000	1
288033	7	14,690,327	T	C	HDAC9	3	_5_prime_flanking_region	753	20	2.59	301	271	47.38	47.38	Somatic	0.000	549	457	45.43	45.43	Somatic	0.000	1
288033	7	18,482,768	A	G	LOC100134778	3	_5_prime_flanking_region	724	0	0.00	520	19	3.53	3.53	Somatic	0.000	571	116	16.89	16.89	Somatic	0.000	2
288033	7	52,744,942	C	A	ENSG00000200471	3	_5_prime_flanking_region	673	1	0.15	1768	110	5.86	5.86	Somatic	0.000	930	165	15.07	15.07	Somatic	0.000	2
288033	7	54,619,088	C	T	MAG12	3	_5_prime_flanking_region	1522	3	0.20	1778	106	5.63	5.63	Somatic	0.000	1112	168	13.12	13.12	Somatic	0.000	2
288033	7	77,490,163	C	T	ENSG00000222994	3	_5_prime_flanking_region	887	13	1.44	75	51	40.48	40.48	Somatic	0.000	291	240	45.20	45.2	Somatic	0.000	1
288033	7	83,364,680	G	A	MOGAT3	1	missense	971	29	2.90	572	440	43.48	43.48	Somatic	0.000	468	409	46.64	46.64	Somatic	0.000	1
288033	7	100,625,938	C	T	LOC100134778	1	missense	693	0	0.00	54	5	8.47	8.47	Somatic	0.000	278	25	8.25	8.25	Somatic	0.000	0
288033	7	105,581,235	C	A	LOC100128056	0	3	992	14	1.39	784	737	48.45	48.45	Somatic	0.000	788	703	47.15	47.15	Somatic	0.000	1
288033	7	108,831,999	G	T	LOC647030	0	3	721	22	2.96	310	214	40.84	40.84	Somatic	0.000	372	307	45.21	45.21	Somatic	0.000	1
288033	7	109,279,274	T	C	PLXNA4	3	_5_prime_flanking_region	728	20	2.67	514	425	45.26	45.26	Somatic	0.000	350	361	50.77	50.77	Somatic	0.000	1
288033	7	131,037,771	C	A	PPM1D	2	_5_prime_flanking_region	1070	22	2.01	420	290	40.85	40.85	Somatic	0.000	374	364	49.32	49.32	Somatic	0.000	1
288033	7	131,670,514	C	T	PPM1D	3	intronic	1208	20	1.63	567	455	44.52	44.52	Somatic	0.000	656	626	48.83	48.83	Somatic	0.000	1
288033	7	153,747,479	G	A	PPM1D	3	intronic	571	19	3.22	328	260	44.22	44.22	Somatic	0.000	212	215	50.35	50.35	Somatic	0.000	1
288033	8	4,542,783	G	T	PPM1D	3	intronic	1032	33	3.10	545	425	43.81	43.81	Somatic	0.000	532	444	45.49	45.49	Somatic	0.000	1
288033	8	14,319,273	T	A	PPM1D	3	intronic	475	1	0.21	520	24	4.41	4.41	Somatic	0.000	526	122	18.83	18.83	Somatic	0.000	2
288033	8	14,639,245	C	A	PPM1D	3	intronic	796	13	1.61	447	380	45.95	45.95	Somatic	0.000	438	428	49.42	49.42	Somatic	0.000	1
288033	8	16,298,229	T	A	PPM1D	0	3	932	29	3.02	848	733	46.36	46.36	Somatic	0.000	593	464	43.90	43.9	Somatic	0.000	1
288033	8	28,246,894	G	A	PNOCK	3	intronic	834	8	0.95	252	198	44.00	44.00	Somatic	0.000	358	331	48.04	48.04	Somatic	0.000	1
288033	8	32,385,558	G	A	NRG1	3	intronic	649	2	0.31	680	590	46.46	46.46	Somatic	0.000	360	331	47.90	47.9	Somatic	0.000	1
288033	8	64,843,989	C	A	LOC100128056	0	2	574	2	0.35	976	52	5.06	5.06	Somatic	0.000	756	139	15.53	15.53	Somatic	0.000	2
288033	8	106,551,618	G	T	ZFPM2	3	intronic	571	5	0.87	689	111	13.88	13.88	Somatic	0.000	719	115	13.79	13.79	Somatic	0.000	0
288033	8	123,225,480	A	G	LOC100128056	0	3	1140	17	1.47	798	636	44.35	44.35	Somatic	0.000	584	491	45.67	45.67	Somatic	0.000	1
288033	8	132,229,693	G	A	ENSG00000213624	3	_5_prime_flanking_region	1058	14	1.31	1105	556	33.47	33.47	Somatic	0.000	679	547	44.62	44.62	Somatic	0.000	0
288033	8	136,097,831	G	A	KHDBS3	3	_5_prime_flanking_region	1170	15	1.27	753	691	47.85	47.85	Somatic	0.000	519	467	47.36	47.36	Somatic	0.000	1
288033	9	136,500,914	G	A	DMRT1	2	intronic	633	0	0.00	527	25	4.53	4.53	Somatic	0.000	534	87	14.01	14.01	Somatic	0.000	2
288033	9	1,244,345	T	A	DMRT1	0	3	794	21	2.58	444	434	49.43	49.43	Somatic	0.000	355	333	48.40	48.4	Somatic	0.000	1
288033	9	1,867,266	C	T	DMRT1	0	3	1134	30	2.58	757	658	46.50	46.50	Somatic	0.000	480	473	49.63	49.63	Somatic	0.000	1
288033	9	1,958,359	G	T	SMARCA2	2	_5_prime_flanking_region	809	0	0.00	1014	52	4.88	4.88	Somatic	0.000	798	144	15.29	15.29	Somatic	0.000	2
288033	9	10,615,044	T	G	PTPRD	3	_5_prime_flanking_region	110	0	0.00	68	3	4.23	4.23	Somatic	0.059	176	45	20.36	20.36	Somatic	0.000	2
288033	9	12,543,966	G	T	NFIB	0	2	1255	4	0.32	1257	271	17.74	17.74	Somatic	0.000	930	132	12.43	12.43	Somatic	0.000	0
288033	9	14,164,262	A	C	LOC79201	3	intronic	644	17	2.57	1069	29	2.64	2.64	Somatic	0.531	829	45	5.15	5.15	Somatic	0.007	0
288033	9	31,709,972	C	A	LOC79201	0	3	734	25	3.29	709	678	48.88	48.88	Somatic	0.000	559	419	42.84	42.84	Somatic	0.000	1
288033	9	93,331,507	C	T	ROR2	3	_3_prime_flanking_region	770	0	0.00	1674	107	6.01	6.01	Somatic	0.000	1039	198	16.01	16.01	Somatic	0.000	2
288033	9	102,062,657	A	G	INVS	3	intronic	497	9	1.78	444	233	34.42	34.42	Somatic	0.000	584	494	45.83	45.83	Somatic	0.000	1
288033	9	120,048,911	G	A	ENSG00000204055	0	3	1702	28	1.62	1541	1490	49.16	49.16	Somatic	1.117E-321	836	717	46.17	46.17	Somatic	0.000	1
288033	9	131,008,556	G	A	ENSG00000204055	3	intronic	1660	23	1.37	111	84	43.08	43.08	Somatic	0.000	287	191	39.96	39.96	Somatic	0.000	1
288033	9	131,454,673	C	T	ASB6	3	_5_prime_flanking_region	158	2	0.01	na	na	na	na	Somatic	0.000	36	30	45.45	45.45	Somatic	0.000	0
288033	9	133,670,953	C	T	ENSG00000212395	3	_5_prime_flanking_region	638	8	1.24	45	26	36.62	36.62	Somatic	0.000	279	207	42.59	42.59	Somatic	0.000	0
288033	9	135,908,663	T	C	BRD3	3	intronic	241	0	0.00	22	11	33.33	33.33	Somatic	0.000	69	35	33.65	33.65	Somatic	0.000	0
288033	10	1,439,629	A	T	ADARB2	3	intronic	150	5	3.23	24	21	46.67	46.67	Somatic	0.000	74	46	38.33	38.33	Somatic	0.000	0
288033	10	23,107,639	G	A	ENSG00000206842	3	_5_prime_flanking_region	606	9	1.46	310	249	44.54	44.54	Somatic	0.000	613	457	42.71	42.71	Somatic	0.000	1
288033	10	29,184,184	C	T	C10orf126	3	intronic	834	20	2.34	534	423	44.20	44.20	Somatic	0.000	647	503	43.74	43.74	Somatic	0.000	1
288033	10	31,101,925	C	T	CCNY	0	2	2620	71	2.64	168	122	42.07	42.07	Somatic	0.000	390	389	49.94	49.94	Somatic	0.000	1
288033	10	35,749,263	C	T	CCNY	3	intronic	718	4	0.55	518	50	8.80	8.80	Somatic	0.000	766	57	6.93	6.93	Somatic	0.000	0
288033	10	55,384,628	G	A	PCDH15	3	intronic	399	0	0.00	396	19	4.58	4.58	Somatic	0.000	503	64	11.29	11.29	Somatic	0.000	0
288033	10	56,325,436	T	C	PCDH15	3	intronic	739	0	0.00	464	26	5.31	5.31	Somatic	0.000	644	129	16.69	16.69	Somatic	0.000	2
288033	10	58,266,685	G	T	KCNMA1	0	2	969	28	2.81	690	608	46.84	46.84	Somatic	0.000	411	423	50.72	50.72	Somatic	0.000	1
288033	10	78,876,008	G	C	KCNMA1	2	intronic	724	13	1.76	502	390	43.72	43.72	Somatic	0.000	497	394	44.22	44.22	Somatic	0.000	1
288033	10	83,477,482	C	T	ENSG00000201412	3	_5_prime_flanking_region	428	2	0.47	403	35	7.99	7.99	Somatic	0.000	649	144	18.16	18.16	Somatic	0.000	2
288033	10	94,486,226	A	T	ENSG00000201412	3	_5_prime_flanking_region	1250	1	0.08	527	31	5.56	5.56	Somatic	0.000	587	114	16.26	16.26	Somatic	0.000	2
288033	10	104,352,746	G	C	SUFU	3	intronic	367	0	0.00	81	5	5.81	5.81	Somatic	0.000	288	67	18.87	18.87	Somatic	0.000	2
288033	10	104,925,381	G	A	LOC79201	1	rna	328	0	0.00	383	18	4.49	4.49	Somatic	0.000	298	58	16.29	16.29	Somatic	0.000	2

288033	13	56,071,344	C	T	0	3	0	316	1	0.32	349	19	5.16	5.16	Somatic	0.000	465	54	10.40	10.4	Somatic	0.000	0
288033	13	56,525,639	C	A	0	3	0	1048	5	0.47	1027	171	14.27	14.27	Somatic	0.000	637	110	14.73	14.73	Somatic	0.000	0
288033	13	57,887,080	C	T	LOC341689	3	5_prime_flanking_region	473	9	1.87	554	465	45.63	45.63	Somatic	0.000	430	362	45.71	45.71	Somatic	0.000	1
288033	13	58,078,836	G	T		0	3	0	702	2	0.28	614	46	6.97	6.97	Somatic	0.000	506	72	12.46	12.46	Somatic	0.000
288033	13	64,329,727	G	T	0	3	0	556	0	0.00	807	39	4.61	4.61	Somatic	0.000	649	149	18.67	18.67	Somatic	0.000	2
288033	13	64,623,302	A	G	0	3	0	429	6	1.38	185	144	43.77	43.77	Somatic	0.000	222	198	47.14	47.14	Somatic	0.000	1
288033	13	69,893,279	G	T	ENSG00000202433	3	5_prime_flanking_region	329	0	0.00	799	104	11.52	11.52	Somatic	0.000	625	57	8.36	8.36	Somatic	0.000	0
288033	13	85,383,162	C	G		0	3	0	434	10	2.25	545	521	48.87	48.87	Somatic	0.000	458	324	41.43	41.43	Somatic	0.000
288033	13	104,630,780	G	A	0	2	0	695	21	2.93	844	733	46.48	46.48	Somatic	0.000	580	533	47.89	47.89	Somatic	0.000	1
288033	13	109,756,225	T	A	COL4A1	3	intronic	512	2	0.39	90	4	4.26	4.26	Somatic	0.006	353	69	16.35	16.35	Somatic	0.000	2
288033	14	34,978,499	G	A		3	5_prime_flanking_region	796	10	1.24	557	487	46.65	46.65	Somatic	0.000	430	353	45.08	45.08	Somatic	0.000	1
288033	14	41,977,018	C	A	0	3	0	601	0	0.00	507	28	5.23	5.23	Somatic	0.000	517	84	13.98	13.98	Somatic	0.000	2
288033	14	57,435,251	G	A	0	3	0	688	2	0.29	773	48	5.85	5.85	Somatic	0.000	676	105	13.44	13.44	Somatic	0.000	2
288033	14	79,487,383	G	T	LOC730007	3	intronic	1005	0	0.00	1493	61	3.93	3.93	Somatic	0.000	821	138	14.39	14.39	Somatic	0.000	2
288033	14	95,352,107	G	A		0	3	0	675	5	0.74	1249	269	17.72	17.72	Somatic	0.000	1021	167	14.06	14.06	Somatic	0.000
288033	14	98,817,235	T	C	BCL11B	2	5_prime_flanking_region	997	28	2.73	130	75	36.59	36.59	Somatic	0.000	278	238	46.12	46.12	Somatic	0.000	1
288033	15	34,189,811	A	G		0	3	0	781	24	2.98	655	619	48.59	48.59	Somatic	0.000	582	473	44.83	44.83	Somatic	0.000
288033	15	35,425,024	C	T	0	2	0	927	3	0.32	1313	111	7.79	7.79	Somatic	0.000	1195	76	5.98	5.98	Somatic	0.000	0
288033	15	40,088,591	T	C	LOC100129266	1	missense	2152	49	2.23	283	232	45.05	45.05	Somatic	0.000	583	519	47.10	47.1	Somatic	0.000	1
288033	15	71,895,645	T	A		0	3	0	731	10	1.35	107	77	41.85	41.85	Somatic	0.000	223	197	46.90	46.9	Somatic	0.000
288033	15	81,670,723	C	T	HDGFRP3	3	5_prime_flanking_region	1191	14	1.16	231	147	38.89	38.89	Somatic	0.000	348	313	47.35	47.35	Somatic	0.000	1
288033	15	84,337,649	T	G		0	3	0	755	33	4.19	553	415	42.87	42.87	Somatic	0.000	387	311	44.56	44.56	Somatic	0.000
288033	15	84,963,065	C	T	AGBL1	3	intronic	987	2	0.20	1354	307	18.48	18.48	Somatic	0.000	838	140	14.31	14.31	Somatic	0.000	0
288033	16	20,051,564	C	A		3	intronic	1926	5	0.26	1565	89	5.38	5.38	Somatic	0.000	1246	215	14.72	14.72	Somatic	0.000	2
288033	16	47,476,312	A	G	0	3	0	796	2	0.25	846	37	4.19	4.19	Somatic	0.000	1137	206	15.34	15.34	Somatic	0.000	2
288033	16	49,634,582	G	A	LOC728654	3	5_prime_flanking_region	786	1	0.13	520	25	4.59	4.59	Somatic	0.000	691	125	15.32	15.32	Somatic	0.000	2
288033	16	63,505,446	A	G		3	3_prime_flanking_region	583	0	0.00	1037	73	6.58	6.58	Somatic	0.000	960	158	14.13	14.13	Somatic	0.000	2
288033	16	64,239,507	T	C	0	2	0	741	14	1.85	240	194	44.70	44.70	Somatic	0.000	321	254	44.17	44.17	Somatic	0.000	1
288033	16	68,727,144	T	C	PDPR	3	intronic	1333	8	0.60	596	121	16.88	16.88	Somatic	0.000	901	186	17.11	17.11	Somatic	0.000	0
288033	16	69,457,468	C	G		3	intronic	1438	13	0.90	1970	555	21.98	21.98	Somatic	0.000	1259	393	23.79	23.79	Somatic	0.000	0
288033	16	72,535,789	C	T	LOC441506	3	5_prime_flanking_region	632	15	2.32	573	513	47.24	47.24	Somatic	0.000	739	553	42.80	42.8	Somatic	0.000	1
288033	16	83,878,402	G	A		3	intronic	631	12	1.87	53	24	31.17	31.17	Somatic	0.000	183	169	48.01	48.01	Somatic	0.000	0
288033	17	3,012,074	C	A	OR161	2	5_prime_flanking_region	925	17	1.80	459	353	43.47	43.47	Somatic	0.000	588	476	44.74	44.74	Somatic	0.000	1
288033	17	10,291,145	C	T		1	silent	718	20	2.71	412	356	46.35	46.35	Somatic	0.000	387	298	43.50	43.5	Somatic	0.000	1
288033	17	14,673,235	G	A	uc002goi.1	3	5_prime_flanking_region	966	23	2.33	373	280	42.88	42.88	Somatic	0.000	435	348	44.44	44.44	Somatic	0.000	1
288033	17	23,004,990	C	T		3	3_prime_flanking_region	313	0	0.00	57	1	1.72	1.72	Somatic	0.156	118	22	15.71	15.71	Somatic	0.000	0
288033	17	32,031,968	G	A	MRM1	2	5_prime_flanking_region	807	4	0.49	83	55	39.86	39.86	Somatic	0.000	231	223	49.12	49.12	Somatic	0.000	1
288033	17	65,844,999	C	T		0	3	0	845	14	1.63	406	326	44.54	44.54	Somatic	0.000	385	343	47.12	47.12	Somatic	0.000
288033	17	77,987,713	A	G	HEXDC	3	intronic	216	2	0.92	53	21	28.38	28.38	Somatic	0.000	136	114	45.60	45.6	Somatic	0.000	0
288033	18	5,577,150	C	A		3	intronic	605	12	1.94	411	332	44.68	44.68	Somatic	0.000	330	293	47.03	47.03	Somatic	0.000	1
288033	18	13,115,997	C	T	CEP192	2	3_prime_flanking_region	940	21	2.19	163	107	39.63	39.63	Somatic	0.000	441	365	45.29	45.29	Somatic	0.000	1
288033	18	31,003,932	G	A		3	3_prime_flanking_region	1052	22	2.05	499	410	45.10	45.10	Somatic	0.000	503	436	46.43	46.43	Somatic	0.000	1
288033	18	57,520,431	A	T	0	3	0	1669	36	2.11	965	828	46.18	46.18	Somatic	0.000	579	488	45.74	45.74	Somatic	0.000	1
288033	18	58,888,693	A	T	0	3	0	1059	21	1.94	246	173	41.29	41.29	Somatic	0.000	601	482	44.51	44.51	Somatic	0.000	1
288033	18	64,104,797	G	C	0	3	0	956	19	1.95	645	593	47.90	47.90	Somatic	0.000	516	454	46.80	46.8	Somatic	0.000	1
288033	18	65,876,876	T	C	RTTN	3	intronic	475	12	2.46	346	299	46.36	46.36	Somatic	0.000	409	317	43.66	43.66	Somatic	0.000	1
288033	18	68,496,889	G	A		0	3	0	617	11	1.75	195	141	41.96	41.96	Somatic	0.000	291	235	44.68	44.68	Somatic	0.000
288033	18	72,152,264	C	T	ZNF516	3	3_prime_flanking_region	462	14	2.94	310	220	41.51	41.51	Somatic	0.000	293	301	50.67	50.67	Somatic	0.000	1
288033	19	13,802,346	C	G		1	missense	1089	24	2.16	79	56	41.48	41.48	Somatic	0.000	148	163	52.41	52.41	Somatic	0.000	1
288033	19	15,411,454	C	A	WIZ	1	missense	199	4	1.97	24	23	48.94	48.94	Somatic	0.000	97	73	42.94	42.94	Somatic	0.000	1
288033	19	35,759,176	T	A		3	5_prime_flanking_region	803	22	2.67	170	123	41.98	41.98	Somatic	0.000	223	248	52.65	52.65	Somatic	0.000	1
288033	19	38,802,027	T	C	0	2	0	281	1	0.35	126	5	3.82	3.82	Somatic	0.014	215	35	14.00	14.00	Somatic	0.000	2
288033	20	12,920,147	G	T	SPTLC3	3	5_prime_flanking_region	516	1	0.19	868	48	5.24	5.24	Somatic	0.000	716	119	14.25	14.25	Somatic	0.000	2
288033	20	34,078,547	C	T		2																	

298273	1	15,093,630	G	A	KIAA1026	3	intronic	1373	1	0.07	205	175	46.05	46.05	Somatic	0.000	337	264	43.93	43.93	Somatic	0.000	1	
298273	1	20,728,976	T	A	MUL1	3	5_prime_flanking_region	1053	6	0.57	213	213	50.00	50.00	Somatic	0.000	270	222	45.12	45.12	Somatic	0.000	1	
298273	1	22,917,423	C	T	EPHB2	3	intronic	1038	1	0.10	84	73	46.50	46.50	Somatic	0.000	216	163	43.01	43.01	Somatic	0.000	1	
298273	1	23,846,601	G	A	RPL11	3	5_prime_flanking_region	926	3	0.32	320	284	47.02	47.02	Somatic	0.000	394	323	45.05	45.05	Somatic	0.000	1	
298273	1	24,884,977	G	A	ENSG00000209656	3	5_prime_flanking_region	2042	2	0.10	201	204	50.37	50.37	Somatic	0.000	325	249	43.38	43.38	Somatic	0.000	1	
298273	1	40,588,995	T	C	COL9A2	2	5_prime_flanking_region	670	1	0.15	380	245	39.20	39.20	Somatic	0.000	552	95	14.68	14.68	Somatic	0.000	2	
298273	1	42,623,884	A	G	RIMKLA	3	intronic	1675	1	0.06	267	218	44.95	44.95	Somatic	0.000	277	187	40.30	40.30	Somatic	0.000	1	
298273	1	45,931,884	C	T	TMEM69	1	missense	643	2	0.31	209	180	46.27	46.27	Somatic	0.000	265	183	40.85	40.85	Somatic	0.000	1	
298273	1	60,022,471	C	A	HOOK1	2	5_prime_flanking_region	449	0	0.00	935	0	0.00	0.00	Reference	1.000	510	188	26.93	26.93	Somatic	0.000	5	
298273	1	91,154,447	T	C	ZNF644	2	3_prime_untranslated_region	457	0	0.00	967	0	0.00	0.00	Reference	1.000	503	174	25.70	25.70	Somatic	0.000	5	
298273	1	94,421,359	T	A	ARHGPAP29	3	intronic	283	9	3.08	343	9	2.56	2.56	Somatic	0.741	279	24	7.92	7.92	Somatic	0.008	0	
298273	1	95,147,805	C	G	CNN3	3	intronic	2399	4	0.17	463	377	44.88	44.88	Somatic	0.000	469	378	44.63	44.63	Somatic	0.000	1	
298273	1	95,233,538	C	T	ALG14	3	intronic	1082	0	0.00	718	650	47.51	47.51	Somatic	0.000	686	549	44.45	44.45	Somatic	0.000	1	
298273	1	107,354,746	G	A	PRMT6	3	5_prime_flanking_region	1212	4	0.33	558	451	44.70	44.70	Somatic	0.000	781	105	11.85	11.85	Somatic	0.000	2	
298273	1	117,348,722	C	A	IGSF2	3	intronic	1255	1	0.08	1660	1	0.06	0.06	Reference	0.815	1029	380	26.97	26.97	Somatic	0.000	5	
298273	1	118,356,190	G	T	SPAG17	3	intronic	218	1	0.46	155	65	29.55	29.55	Somatic	0.000	118	55	31.79	31.79	Somatic	0.000	0	
298273	1	149,479,922	A	G	PIP5K1A	3	intronic	650	1	0.15	188	117	38.36	38.36	Somatic	0.000	337	56	14.25	14.25	Somatic	0.000	2	
298273	1	157,535,262	C	A	FCR1A	3	intronic	780	1	0.13	584	417	41.66	41.66	Somatic	0.000	753	135	15.20	15.20	Somatic	0.000	2	
298273	1	181,521,806	C	T	NNMAT2	3	intronic	1060	25	2.30	221	207	48.36	48.36	Somatic	0.000	432	294	40.50	40.50	Somatic	0.000	1	
298273	1	181,765,168	G	T	SMG7	1	silent	300	0	0.00	706	531	42.93	42.93	Somatic	0.000	709	100	12.36	12.36	Somatic	0.000	2	
298273	1	182,441,747	C	A	ENSG00000199840	3	5_prime_flanking_region	834	1	0.12	665	529	44.30	44.30	Somatic	0.000	619	440	41.55	41.55	Somatic	0.000	1	
298273	1	184,290,358	G	A	HMCN1	3	intronic	856	0	0.00	2086	71	3.29	3.29	Somatic	0.000	1110	441	28.43	28.43	Somatic	0.000	3	
298273	1	193,561,990	C	T	LOC64330	0	3	0	574	0	0.00	583	466	44.42	44.42	Somatic	0.000	398	311	43.86	43.86	Somatic	0.000	1
298273	1	195,660,718	T	C	CRB1	3	intronic	871	1	0.11	613	523	46.04	46.04	Somatic	0.000	452	325	41.83	41.83	Somatic	0.000	1	
298273	1	196,617,136	T	A	0	3	0	808	0	0.00	498	456	47.80	47.80	Somatic	0.000	418	286	40.62	40.62	Somatic	0.000	1	
298273	1	203,240,984	G	A	NFASC	3	intronic	1038	2	0.19	74	68	47.89	47.89	Somatic	0.000	261	160	38.00	38.00	Somatic	0.000	1	
298273	1	206,570,538	T	C	0	3	0	1260	0	0.00	711	483	40.45	40.45	Somatic	0.000	866	160	15.59	15.59	Somatic	0.000	2	
298273	1	211,749,752	A	C	LOC64330	2	5_prime_flanking_region	1292	0	0.00	839	689	45.09	45.09	Somatic	0.000	702	565	44.59	44.59	Somatic	0.000	1	
298273	1	235,341,605	C	T	RYR2	3	intronic	1086	1	0.08	486	0	0.00	0.00	Reference	0.691	459	145	24.01	24.01	Somatic	0.000	5	
298273	1	246,376,111	G	A	OR2M2	2	5_prime_flanking_region	323	2	0.62	250	194	43.69	43.69	Somatic	0.000	297	64	17.73	17.73	Somatic	0.000	2	
298273	2	4,158,576	T	A	0	3	0	344	0	0.00	494	0	0.00	0.00	Reference	1.000	322	115	26.32	26.32	Somatic	0.000	5	
298273	2	6,130,138	C	A	0	3	0	717	1	0.14	569	468	45.13	45.13	Somatic	0.000	769	107	12.21	12.21	Somatic	0.000	2	
298273	2	9,398,817	G	C	ASAP2	2	intronic	1369	1	0.07	518	14	2.63	2.63	Somatic	0.000	544	217	28.52	28.52	Somatic	0.000	3	
298273	2	14,130,397	G	A	0	3	0	365	0	0.00	813	23	2.75	2.75	Somatic	0.000	429	165	27.78	27.78	Somatic	0.000	3	
298273	2	22,093,492	T	A	0	3	0	703	0	0.00	482	418	46.44	46.44	Somatic	0.000	355	303	46.05	46.05	Somatic	0.000	1	
298273	2	30,395,765	T	C	LBH	2	intronic	2557	2	0.08	400	336	45.65	45.65	Somatic	0.000	553	421	43.22	43.22	Somatic	0.000	1	
298273	2	34,424,977	G	A	0	3	0	896	1	0.11	550	416	43.06	43.06	Somatic	0.000	815	123	13.11	13.11	Somatic	0.000	2	
298273	2	43,833,591	T	C	PLEKH2	3	intronic	851	0	0.00	495	450	47.62	47.62	Somatic	0.000	476	459	49.09	49.09	Somatic	0.000	1	
298273	2	45,877,163	C	T	PRKCE	3	intronic	1130	11	0.96	692	0	0.00	0.00	Reference	0.005	543	158	22.54	22.54	Somatic	0.000	5	
298273	2	49,276,649	G	A	FSHR	3	5_prime_flanking_region	1617	3	0.19	1142	1020	47.18	47.18	Somatic	0.000	888	660	42.64	42.64	Somatic	0.000	1	
298273	2	53,543,092	G	A	ENSG00000212217	3	3_prime_flanking_region	987	3	0.30	572	452	44.14	44.14	Somatic	0.000	445	315	41.45	41.45	Somatic	0.000	1	
298273	2	71,647,360	G	A	DYSF	3	intronic	418	3	0.71	52	36	40.91	40.91	Somatic	0.000	159	122	43.42	43.42	Somatic	0.000	1	
298273	2	79,982,913	T	C	CTTNA2	3	intronic	559	0	0.00	1454	1	0.07	0.07	Reference	0.722	886	244	21.59	21.59	Somatic	0.000	5	
298273	2	81,657,935	T	G	ENSG00000198702	3	5_prime_flanking_region	961	1	0.10	339	381	52.92	52.92	Somatic	0.000	417	343	45.13	45.13	Somatic	0.000	0	
298273	2	83,943,257	C	A	EDAR	3	intronic	851	0	0.00	495	450	47.62	47.62	Somatic	0.000	304	185	37.83	37.83	Somatic	0.000	1	
298273	2	91,125,100	G	A	ENSG00000219041	3	intronic	1377	55	3.84	755	60	7.36	7.36	Somatic	0.000	1428	96	6.30	6.30	Somatic	0.001	4	
298273	2	100,466,155	G	A	NMS	1	nonsense	494	1	0.20	261	246	48.52	48.52	Somatic	0.000	299	186	38.35	38.35	Somatic	0.000	1	
298273	2	100,621,134	G	A	ENSG00000213319	3	5_prime_flanking_region	1349	17	1.24	245	216	46.85	46.85	Somatic	0.000	527	477	47.51	47.51	Somatic	0.000	1	
298273	2	103,220,219	A	G	0	3	0	1288	1	0.08	1010	833	45.20	45.20	Somatic	0.000	803	590	42.35	42.35	Somatic	0.000	1	
298273	2	108,907,969	G	A	EDAR	3	intronic	953	1	0.10	125	131	51.17	51.17	Somatic	0.000	470	347	42.47	42.47	Somatic	0.000	1	
298273	2	113,065,200	G	A	ENSG00000207383	2	5_prime_flanking_region	864	15	1.71	560	0	0.00	0.00	Reference	0.001	511	186	26.69	26.69	Somatic	0.000	5	
298273	2	126,586,165	G	A	MGAT5	3	intronic	1085	11	1.00	870	832	48.88	48.88	Somatic	0.000	643	497	43.60	43.60	Somatic	0.005	4	
298273	2	134,662,641	T	G	0	3	0	1072	38	3.42	1208	78	6.07	6.07	Somatic	0.002	1307	79	5.70	5.70	Somatic	0.005	4	
298273	2	153,552,797	C	T	0	3	0	513	0	0.00	489	438	47.25	47.25	Somatic	0.000	313	279	47.13	47.13	Somatic	0.000	1	
298273	2	156,655,518	C	T	GALNT13	3	intronic	193																

298273	3	138,775,138	G	A	0	3	0	729	1	0.14	498	400	44.54	44.54	Somatic	0.000	351	308	46.74	46.74	Somatic	0.000	1	
298273	3	144,783,156	C	T	SLC9A9	3	intronic	1881	3	0.16	806	694	46.27	46.27	Somatic	0.000	705	529	42.87	42.87	Somatic	0.000	1	
298273	3	147,140,276	C	T	ENSG00000222350	3	_3_prime_flanking_region	718	4	0.55	606	541	47.17	47.17	Somatic	0.000	522	365	41.15	41.15	Somatic	0.000	1	
298273	3	149,046,998	G	A	0	3	0	292	1	0.34	566	19	3.25	3.25	Somatic	0.003	370	160	30.19	30.19	Somatic	0.000	3	
298273	3	150,364,803	C	G	HPS3	3	intronic	340	2	0.58	606	565	48.25	48.25	Somatic	0.000	563	391	40.99	40.99	Somatic	0.000	1	
298273	3	159,177,362	T	C	ENSG00000208653	3	_5_prime_flanking_region	627	29	4.42	985	73	6.90	6.90	Somatic	0.021	768	86	10.07	10.07	Somatic	0.000	4	
298273	3	164,969,699	T	C	0	3	0	297	0	0.00	135	106	43.98	43.98	Somatic	0.000	96	85	46.96	46.96	Somatic	0.000	1	
298273	3	166,379,764	C	A	SLTRK3	3	_3_prime_flanking_region	742	5	0.67	727	32	4.22	4.22	Somatic	0.000	443	189	29.91	29.91	Somatic	0.000	3	
298273	3	169,007,926	A	T	SERPIN1	3	intronic	577	1	0.17	340	256	42.95	42.95	Somatic	0.000	408	63	13.38	13.38	Somatic	0.000	2	
298273	3	175,841,081	C	T	ENSG00000208490	3	_5_prime_flanking_region	406	2	0.49	608	27	4.25	4.25	Somatic	0.000	359	119	24.90	24.90	Somatic	0.000	3	
298273	3	177,938,971	C	T	ENSG00000208490	0	3	0	686	0	0.00	1123	45	3.85	3.85	Somatic	0.000	613	217	26.14	26.14	Somatic	0.000	3
298273	3	182,599,852	G	C	0	3	0	1080	2	0.18	1452	70	4.60	4.60	Somatic	0.000	809	371	31.44	31.44	Somatic	0.000	3	
298273	3	189,198,464	C	T	FGF12	3	intronic	882	2	0.23	695	624	47.31	47.31	Somatic	0.000	577	429	42.64	42.64	Somatic	0.000	1	
298273	4	3,126,361	C	T	HTT	3	intronic	593	1	0.17	466	321	40.79	40.79	Somatic	0.000	858	125	12.72	12.72	Somatic	0.000	2	
298273	4	12,008,385	C	A	KCNIP4	0	2	0	606	0	0.00	392	348	47.03	47.03	Somatic	0.000	461	84	15.41	15.41	Somatic	0.000	2
298273	4	20,823,153	A	T	0	3	0	758	0	0.00	506	391	43.59	43.59	Somatic	0.000	423	298	41.33	41.33	Somatic	0.000	1	
298273	4	22,987,642	A	G	0	2	0	405	0	0.00	513	454	46.95	46.95	Somatic	0.000	374	308	45.16	45.16	Somatic	0.000	1	
298273	4	33,617,241	A	T	0	3	0	320	1	0.31	313	206	39.69	39.69	Somatic	0.000	309	41	11.71	11.71	Somatic	0.000	2	
298273	4	52,873,855	G	A	0	3	0	752	1	0.13	552	491	47.08	47.08	Somatic	0.000	431	272	38.69	38.69	Somatic	0.000	1	
298273	4	59,041,582	C	A	0	3	0	223	1	0.45	176	124	41.33	41.33	Somatic	0.000	211	33	13.52	13.52	Somatic	0.000	2	
298273	4	60,162,931	G	A	0	3	0	420	0	0.00	434	404	48.21	48.21	Somatic	0.000	299	254	45.93	45.93	Somatic	0.000	1	
298273	4	63,901,300	T	C	LOC644578	3	_3_prime_flanking_region	747	1	0.13	543	447	45.15	45.15	Somatic	0.000	430	298	40.93	40.93	Somatic	0.000	1	
298273	4	65,541,221	G	C	0	3	0	437	1	0.23	462	419	47.56	47.56	Somatic	0.000	401	281	41.20	41.20	Somatic	0.000	1	
298273	4	68,880,879	C	A	YTHDC1	3	intronic	518	16	3.00	903	42	4.44	4.44	Somatic	0.106	591	38	6.04	6.04	Somatic	0.009	4	
298273	4	84,627,981	A	G	HELQ	3	_5_prime_flanking_region	490	0	0.00	148	150	50.34	50.34	Somatic	0.000	175	114	39.45	39.45	Somatic	0.000	1	
298273	4	86,375,549	G	A	0	3	0	1773	1	0.06	1234	42	3.29	3.29	Somatic	0.000	659	269	28.99	28.99	Somatic	0.000	3	
298273	4	91,912,673	A	C	KIAA1680	3	intronic	481	0	0.00	621	0	0.00	0.00	Reference	1.000	498	52	9.45	9.45	Somatic	0.000	0	
298273	4	109,847,923	T	C	OSTC	3	_3_prime_flanking_region	1829	1	0.05	1842	1438	43.84	43.84	Somatic	0.000	2019	332	14.12	14.12	Somatic	0.000	2	
298273	4	112,773,088	G	A	0	3	0	467	2	0.43	870	0	0.00	0.00	Reference	0.123	542	160	22.79	22.79	Somatic	0.000	5	
298273	4	122,463,285	A	C	QRFP1	3	_3_prime_flanking_region	492	9	1.80	1090	83	7.08	7.08	Somatic	0.000	789	52	6.18	6.18	Somatic	0.000	4	
298273	4	122,940,317	A	G	EXOSC9	2	_5_prime_flanking_region	1044	6	0.57	326	260	44.37	44.37	Somatic	0.000	358	239	40.03	40.03	Somatic	0.000	1	
298273	4	127,162,348	A	G	0	3	0	479	8	1.64	878	30	3.30	3.30	Somatic	0.046	488	200	29.07	29.07	Somatic	0.000	3	
298273	4	128,959,138	A	T	HSPA4L	3	intronic	397	0	0.00	311	283	47.64	47.64	Somatic	0.000	289	249	46.28	46.28	Somatic	0.000	1	
298273	4	130,865,240	C	A	0	2	0	755	2	0.26	526	484	47.92	47.92	Somatic	0.000	449	353	44.01	44.01	Somatic	0.000	1	
298273	4	153,412,321	C	T	ENSG00000222091	3	_5_prime_flanking_region	1072	0	0.00	502	17	3.28	3.28	Somatic	0.000	604	243	28.69	28.69	Somatic	0.000	3	
298273	4	155,714,691	C	T	FBXW7	3	_5_prime_flanking_region	1107	3	0.27	936	25	2.60	2.60	Somatic	0.000	671	293	30.39	30.39	Somatic	0.000	3	
298273	4	155,806,633	C	T	0	3	0	639	2	0.31	573	483	45.74	45.74	Somatic	0.000	444	274	38.16	38.16	Somatic	0.000	1	
298273	4	164,439,363	C	T	LOC279971	3	_5_prime_flanking_region	274	0	0.00	204	7	3.32	3.32	Somatic	0.003	137	67	32.84	32.84	Somatic	0.000	3	
298273	4	165,825,178	G	A	LOC653794	3	_5_prime_flanking_region	469	0	0.00	337	297	46.85	46.85	Somatic	0.000	333	253	43.17	43.17	Somatic	0.000	1	
298273	4	173,964,565	A	C	GALNT6	3	intronic	546	0	0.00	887	676	43.25	43.25	Somatic	0.000	1037	174	14.37	14.37	Somatic	0.000	2	
298273	4	182,263,231	G	A	LOC728081	2	intronic	528	0	0.00	636	523	45.13	45.13	Somatic	0.000	484	340	41.26	41.26	Somatic	0.000	1	
298273	4	187,910,289	C	A	FAT1	3	_5_prime_flanking_region	452	0	0.00	715	0	0.00	0.00	Reference	1.000	402	110	21.48	21.48	Somatic	0.000	5	
298273	4	188,323,362	G	A	0	3	0	449	1	0.22	597	0	0.00	0.00	Reference	0.430	440	134	23.34	23.34	Somatic	0.000	5	
298273	5	957,166	A	G	TRIP13	3	intronic	592	1	0.17	307	268	46.61	46.61	Somatic	0.000	540	460	46.00	46.00	Somatic	0.000	1	
298273	5	4,589,920	C	T	0	3	0	2389	1	0.04	685	529	43.57	43.57	Somatic	0.000	1568	291	15.65	15.65	Somatic	0.000	2	
298273	5	5,849,973	G	A	0	3	0	425	0	0.00	818	2	0.24	0.24	Reference	0.434	562	198	26.05	26.05	Somatic	0.000	5	
298273	5	10,964,251	G	A	0	3	0	298	5	1.65	483	0	0.00	0.00	Reference	0.008	359	115	24.26	24.26	Somatic	0.000	5	
298273	5	17,824,056	C	T	PRLR	3	_5_prime_flanking_region	296	3	1.00	257	206	44.49	44.49	Somatic	0.000	332	50	13.09	13.09	Somatic	0.000	2	
298273	5	44,464,520	A	T	FGF10	3	_5_prime_flanking_region	457	0	0.00	566	17	2.92	2.92	Somatic	0.000	262	88	25.14	25.14	Somatic	0.000	3	
298273	5	51,519,225	C	A	0	2	0	119	0	0.00	75	99	56.90	56.90	Somatic	0.000	99	71	41.76	41.76	Somatic	0.000	0	
298273	5	73,110,672	G	A	RGNF	3	intronic	605	0	0.00	816	0	0.00	0.00	Reference	1.000	568	213	27.27	27.27	Somatic	0.000	5	
298273	5	75,510,805	T	C	SV2C	3	intronic	1595	2	0.13	828	597	41.89	41.89	Somatic	0.000	981	177	15.28	15.28	Somatic	0.000	2	
298273	5	77,226,844	G	A	0	3	0	414	0	0.00	402	18	4.29	4.29	Somatic	0.000	320	105	24.71	24.71	Somatic	0.000	3	
298273	5	83,875,307	C	A	0	3	0	350	7	1.96	615	15	2.38	2.38	Somatic	0.000	430	295	40.69	40.69	Somatic	0.000	1	
298273	5	92,614,872	C	T	LOC391811	3	_5_prime_flanking_region	631	10	1.56	980	784	44.44	44.44	Somatic	0.000	778	558	41.					

298273	6	93,163,815	C	A	0	3	KLHL32	0	466	0	0.00	943	1	0.11	0.11	Reference	0.670	479	175	26.76	26.76	Somatic	0.000	5
298273	6	97,435,694	C	T	3	5_prime_flanking_region	714	1	0.14	693	521	42.92	42.92	Somatic	0.000	557	436	43.91	43.91	Somatic	0.000	1		
298273	6	98,930,171	C	T	0	3		602	1	0.17	466	409	46.74	46.74	Somatic	0.000	330	247	42.81	42.81	Somatic	0.000	1	
298273	6	99,670,414	G	C	0	3		620	1	0.16	491	398	44.77	44.77	Somatic	0.000	756	112	12.90	12.90	Somatic	0.000	2	
298273	6	109,467,111	G	T	2	intronic	1623	2	0.12	1282	43	3.25	3.25	Somatic	0.000	681	281	29.21	29.21	Somatic	0.000	3		
298273	6	112,747,789	C	T	3	intronic	692	12	1.70	874	717	45.07	45.07	Somatic	0.000	718	500	41.05	41.05	Somatic	0.000	1		
298273	6	113,602,939	C	T	3	5_prime_flanking_region	1413	1	0.07	1094	1026	48.40	48.40	Somatic	0.000	816	679	45.42	45.42	Somatic	0.000	1		
298273	6	115,714,910	G	A	0	3		1147	3	0.26	449	369	45.11	45.11	Somatic	0.000	348	196	36.03	36.03	Somatic	0.000	1	
298273	6	121,037,195	G	A	3	5_prime_flanking_region	321	0	0.00	686	25	3.52	3.52	Somatic	0.000	432	187	30.21	30.21	Somatic	0.000	3		
298273	6	128,720,770	C	T	3	intronic	760	2	0.26	740	733	49.76	49.76	Somatic	0.000	641	453	41.41	41.41	Somatic	0.000	1		
298273	6	135,551,776	A	G	3	intronic	807	2	0.25	1054	0	0.00	0.00	Reference	0.188	629	167	20.98	20.98	Somatic	0.000	5		
298273	6	140,684,191	C	T	0	3		592	1	0.17	328	196	37.40	37.40	Somatic	0.000	364	66	15.35	15.35	Somatic	0.000	2	
298273	6	145,688,868	C	T	3	5_prime_flanking_region	1054	1	0.09	1235	889	41.85	41.85	Somatic	0.000	1272	198	13.47	13.47	Somatic	0.000	2		
298273	6	162,705,693	C	T	3	PARK2	514	1	0.19	529	482	47.68	47.68	Somatic	0.000	645	132	16.99	16.99	Somatic	0.000	2		
298273	6	168,794,880	C	T	3	SMOC2	534	1	0.19	124	128	50.79	50.79	Somatic	0.000	338	233	40.81	40.81	Somatic	0.000	1		
298273	6	168,819,207	C	T	3	3_prime_flanking_region	803	1	0.12	55	48	46.60	46.60	Somatic	0.000	182	137	42.95	42.95	Somatic	0.000	1		
298273	7	8,299,422	T	C	2	5_prime_flanking_region	573	0	0.00	400	324	44.75	44.75	Somatic	0.000	331	267	44.65	44.65	Somatic	0.000	1		
298273	7	23,719,002	G	A	3	STK31	667	0	0.00	250	230	47.92	47.92	Somatic	0.000	399	276	40.89	40.89	Somatic	0.000	1		
298273	7	40,496,962	A	G	3	C7orf10	681	2	0.29	522	416	44.35	44.35	Somatic	0.000	429	267	38.36	38.36	Somatic	0.000	1		
298273	7	40,905,519	G	A	2	3_prime_flanking_region	851	7	0.82	1262	0	0.00	0.00	Reference	0.002	1000	346	25.71	25.71	Somatic	0.000	5		
298273	7	41,692,756	G	A	3	3_prime_flanking_region	653	1	0.15	678	0	0.00	0.00	Reference	0.491	444	155	25.88	25.88	Somatic	0.000	5		
298273	7	52,785,934	G	T	LOC100134778	1	missense	840	4	0.47	353	258	42.23	42.23	Somatic	0.000	378	77	16.92	16.92	Somatic	0.000	2	
298273	7	53,309,590	C	G	0	3		1198	0	0.00	824	645	43.91	43.91	Somatic	0.000	859	151	14.95	14.95	Somatic	0.000	2	
298273	7	55,693,172	G	A	3	5_prime_flanking_region	691	1	0.14	177	1	0.08	0.08	Reference	0.863	826	280	25.32	25.32	Somatic	0.000	5		
298273	7	66,641,971	C	T	0	3		1238	12	0.96	433	285	39.69	39.69	Somatic	0.000	351	229	39.48	39.48	Somatic	0.000	1	
298273	7	79,360,752	G	C	3	ENSG00000206818	554	1	0.18	477	346	42.04	42.04	Somatic	0.000	552	67	10.82	10.82	Somatic	0.000	2		
298273	7	94,789,349	G	C	1	PON1	1109	13	1.16	941	875	48.18	48.18	Somatic	0.000	785	629	44.48	44.48	Somatic	0.000	1		
298273	7	95,709,030	A	G	3	SLC25A13	822	40	0.64	1113	45	3.89	3.89	Somatic	0.828	722	80	9.98	9.98	Somatic	0.000	0		
298273	7	98,387,206	G	A	3	TRAP	2130	3	0.14	236	161	40.55	40.55	Somatic	0.000	868	133	13.29	13.29	Somatic	0.000	2		
298273	7	107,057,700	G	A	3	BCAP29	1213	0	0.00	521	0	0.00	0.00	Reference	1.000	431	125	22.48	22.48	Somatic	0.000	5		
298273	7	113,536,851	T	G	2	5_prime_flanking_region	369	1	0.27	336	234	41.05	41.05	Somatic	0.000	222	38	14.62	14.62	Somatic	0.000	2		
298273	7	120,894,151	G	A	0	3		501	0	0.00	1142	42	3.55	3.55	Somatic	0.000	587	213	26.62	26.62	Somatic	0.000	3	
298273	7	123,494,584	G	A	0	3		885	8	0.90	850	29	3.30	3.30	Somatic	0.000	476	203	29.90	29.90	Somatic	0.000	3	
298273	7	130,722,345	T	G	3	MKLN1	393	0	0.00	325	244	42.88	42.88	Somatic	0.000	223	169	43.11	43.11	Somatic	0.000	1		
298273	7	131,171,350	G	A	0	3		962	14	1.43	261	195	42.76	42.76	Somatic	0.000	346	266	43.46	43.46	Somatic	0.000	1	
298273	7	150,888,623	A	C	1	PRKAG2	521	26	0.47	452	39	7.94	7.94	Somatic	0.023	608	67	9.93	9.93	Somatic	0.000	4		
298273	8	5,202,188	C	A	0	3		618	0	0.00	817	40	4.67	4.67	Somatic	0.000	470	168	26.33	26.33	Somatic	0.000	3	
298273	8	9,779,875	C	T	2	5_prime_flanking_region	1167	2	0.17	718	23	3.10	3.10	Somatic	0.000	713	272	27.61	27.61	Somatic	0.000	3		
298273	8	11,152,732	C	T	3	ENSG00000196848	968	4	0.41	486	385	44.20	44.20	Somatic	0.000	414	346	45.53	45.53	Somatic	0.000	1		
298273	8	14,440,390	C	T	3	SGC2	573	2	0.35	592	496	45.59	45.59	Somatic	0.000	419	323	43.53	43.53	Somatic	0.000	1		
298273	8	18,621,666	C	T	3	PSD3	637	1	0.16	612	447	42.21	42.21	Somatic	0.000	444	273	38.08	38.08	Somatic	0.000	1		
298273	8	28,993,038	G	A	3	KIF13B	539	7	1.28	206	154	42.54	42.54	Somatic	0.000	363	257	41.45	41.45	Somatic	0.000	1		
298273	8	32,006,075	G	A	3	NRG1	453	0	0.00	332	283	46.02	46.02	Somatic	0.000	334	242	42.01	42.01	Somatic	0.000	1		
298273	8	35,595,480	G	A	3	UNCSD	567	0	0.00	399	373	48.32	48.32	Somatic	0.000	372	289	43.72	43.72	Somatic	0.000	1		
298273	8	36,630,779	C	G	0	3		743	0	0.00	2647	1	0.00	0.00	Reference	0.781	1355	439	24.47	24.47	Somatic	0.000	5	
298273	8	39,469,530	G	T	3	uc003xne.1	238	5	2.06	55	424	88.52	88.52	Somatic	0.000	249	96	27.83	27.83	Somatic	0.000	0		
298273	8	40,129,169	C	T	3	C8orf4	1192	2	0.17	467	338	41.99	41.99	Somatic	0.000	607	98	13.90	13.90	Somatic	0.000	2		
298273	8	40,396,179	C	T	0	3		777	1	0.13	290	244	45.69	45.69	Somatic	0.000	286	242	45.83	45.83	Somatic	0.000	1	
298273	8	51,527,371	C	A	3	SNTG1	741	0	0.00	527	341	39.29	39.29	Somatic	0.000	386	249	39.21	39.21	Somatic	0.000	1		
298273	8	53,617,143	G	A	3	FAM150A	1292	1	0.08	1433	0	0.00	0.00	Reference	0.474	886	331	27.20	27.20	Somatic	0.000	5		
298273	8	70,004,382	G	A	0	3		1395	3	0.34	568	458	44.64	44.64	Somatic	0.000	428	365	46.03	46.03	Somatic	0.000	5	
298273	8	71,107,474	C	T	2	PRDM14	1343	0	0.00	335	0	0.00	0.00	Reference	1.000	498	143	22.31	22.31	Somatic	0.000	5		
298273	8	76,159,012	T	C	3	CRISPLD1	698	1	0.14	630	542	46.25	46.25	Somatic	0.000	592	432	42.19	42.19	Somatic	0.000	1		
298273	8	78,329,440	C	T	0	3		477	1	0.21	675	3	0.44	0.44	Somatic	0.452	330	132	28.57	28.57	Somatic	0.000	3	
298273	8	83,970,019	T	G	0	3		357	1	0.28	178	121	40.47	40.47	Somatic	0.000	140	106	43.09	43.09	Somatic	0.000	1	
298273	8	92,894,432	A	T	0	2		1007	6	0.59	803	719	47.24	47.24	Somatic	0.000	714	487	40.55	40.55	Somatic	0.000	1	
298273	8	94,519,733	C	T	3	LOC100129242	179	0</																

298273	10	73,595,644	A	C	ASCC1	3	intronic	920	4	0.43	341	293	46.21	46.21	Somatic	0.000	544	99	15.40	15.40	Somatic	0.000	2		
298273	10	74,682,979	G	A	MRPS16	2	5_prime_flanking_region	543	0	0.00	361	15	3.99	3.99	Somatic	0.000	382	154	28.73	28.73	Somatic	0.000	3		
298273	10	84,045,102	C	G	NRG3	2	intronic	675	4	0.59	740	63	7.85	7.85	Somatic	0.000	581	40	6.44	6.44	Somatic	0.000	4		
298273	10	84,827,452	G	A	ENSG00000200774	3	5_prime_flanking_region	1322	5	0.38	650	620	48.82	48.82	Somatic	0.000	502	393	43.91	43.91	Somatic	0.000	1		
298273	10	84,871,809	C	T		0	3	0	1230	1	0.08	826	711	46.26	46.26	Somatic	0.000	628	465	42.54	42.54	Somatic	0.000	1	
298273	10	86,943,826	G	G	A	GRID1	0	3	0	1278	8	0.62	1027	36	3.39	3.39	Somatic	0.000	620	249	28.65	28.65	Somatic	0.000	3
298273	10	88,078,808	G	A	ATRNL1	3	intronic	1630	32	1.93	329	355	51.90	51.90	Somatic	0.000	790	605	43.37	43.37	Somatic	0.000	1		
298273	10	90,063,350	C	T	C10orf59	3	intronic	628	0	0.00	492	328	40.00	40.00	Somatic	0.000	392	240	37.97	37.97	Somatic	0.000	1		
298273	10	101,414,013	A	T	ENTPD7	3	intronic	254	1	0.39	106	5	4.50	4.50	Somatic	0.011	94	22	18.97	18.97	Somatic	0.000	0		
298273	10	107,590,985	G	A		0	2	0	1226	1	0.08	1410	43	2.96	2.96	Somatic	0.000	739	296	28.60	28.60	Somatic	0.000	3	
298273	10	110,467,186	C	T		0	2	0	400	0	0.00	273	205	42.89	42.89	Somatic	0.000	208	146	41.24	41.24	Somatic	0.000	1	
298273	10	112,330,651	G	A	SMC3	1	splice_site	358	0	0.00	446	17	3.67	3.67	Somatic	0.000	287	98	25.45	25.45	Somatic	0.000	3		
298273	10	117,248,728	C	G	ATRNL1	2	intronic	48	0	0.00	184	5	2.65	2.65	Somatic	0.319	100	47	31.97	31.97	Somatic	0.000	3		
298273	10	119,240,851	G	A	EMX2OS	3	intronic	2468	6	0.24	820	0	0.00	0.00	Reference	0.179	1168	400	25.51	25.51	Somatic	0.000	5		
298273	10	122,958,246	C	G	LOC1001296999	3	3_prime_flanking_region	661	0	0.00	301	188	38.45	38.45	Somatic	0.000	458	70	13.26	13.26	Somatic	0.000	2		
298273	10	123,360,989	A	G	FGR2	3	5_prime_flanking_region	1309	0	0.00	233	149	39.01	39.01	Somatic	0.000	622	104	14.33	14.33	Somatic	0.000	2		
298273	10	123,430,910	C	T	LOC729426	3	5_prime_flanking_region	1479	3	0.20	327	256	43.91	43.91	Somatic	0.000	442	333	42.97	42.97	Somatic	0.000	1		
298273	10	124,037,090	C	T	BTBD16	3	intronic	2790	2	0.07	318	248	43.82	43.82	Somatic	0.000	599	478	44.38	44.38	Somatic	0.000	1		
298273	11	7,138,423	G	T		0	3	0	1235	1	0.08	769	775	50.19	50.19	Somatic	0.000	717	528	42.41	42.41	Somatic	0.000	1	
298273	11	9,119,398	G	C	DENND5A	3	intronic	1036	0	0.00	526	27	4.88	4.88	Somatic	0.000	505	200	28.37	28.37	Somatic	0.000	3		
298273	11	9,682,450	A	G	SWAP70	2	intronic	210	1	0.47	419	392	48.34	48.34	Somatic	0.000	327	221	40.33	40.33	Somatic	0.000	1		
298273	11	10,473,628	G	A	AMPD3	3	intronic	702	0	0.00	477	1	0.21	0.21	Reference	0.405	727	264	26.64	26.64	Somatic	0.000	5		
298273	11	12,659,860	T	C	TEAD1	3	intronic	643	1	0.16	864	0	0.00	0.00	Reference	0.427	446	151	25.29	25.29	Somatic	0.000	5		
298273	11	12,721,381	G	A	TEAD1	3	intronic	1024	2	0.19	962	1	0.10	0.10	Reference	0.863	814	255	23.85	23.85	Somatic	0.000	5		
298273	11	20,285,578	C	G		0	3	0	974	2	0.20	1754	0	0.00	0.00	Reference	0.128	1041	352	25.27	25.27	Somatic	0.000	5	
298273	11	21,087,812	C	T	NELL1	3	intronic	613	0	0.00	394	308	43.87	43.87	Somatic	0.000	429	85	16.54	16.54	Somatic	0.000	2		
298273	11	24,232,563	T	A		0	3	0	417	0	0.00	626	3	0.48	0.48	Somatic	0.217	291	80	21.56	21.56	Somatic	0.000	3	
298273	11	36,133,245	A	G	LDRRAD3	3	intronic	1037	1	0.10	1121	0	0.00	0.00	Reference	0.481	779	271	25.81	25.81	Somatic	0.000	5		
298273	11	36,842,923	G	A		0	3	0	663	3	0.45	455	347	43.27	43.27	Somatic	0.000	682	108	13.67	13.67	Somatic	0.000	2	
298273	11	42,843,031	G	A		0	2	0	1525	14	0.91	686	569	45.34	45.34	Somatic	0.000	561	415	42.52	42.52	Somatic	0.000	1	
298273	11	47,925,592	A	T	PTPRJ	3	5_prime_flanking_region	2351	1	0.04	987	1	0.10	0.10	Reference	0.504	912	312	25.49	25.49	Somatic	0.000	5		
298273	11	51,319,014	G	A		0	3	0	894	2	0.22	856	652	43.24	43.24	Somatic	0.000	551	426	43.60	43.60	Somatic	0.000	1	
298273	11	55,356,335	C	T	OR5D16	3	5_prime_flanking_region	777	0	0.00	835	38	4.35	4.35	Somatic	0.000	463	177	27.66	27.66	Somatic	0.000	3		
298273	11	58,743,469	G	A	MPEG1	3	5_prime_flanking_region	1711	7	0.41	398	313	44.02	44.02	Somatic	0.000	504	350	40.98	40.98	Somatic	0.000	1		
298273	11	74,405,862	C	A	ENSG00000200152	3	5_prime_flanking_region	1353	2	0.15	1104	0	0.00	0.00	Reference	0.304	908	321	26.12	26.12	Somatic	0.000	5		
298273	11	79,327,660	C	T		0	3	0	1343	2	0.15	564	493	46.64	46.64	Somatic	0.000	481	359	42.74	42.74	Somatic	0.000	1	
298273	11	80,782,485	A	C		0	3	0	1051	1	0.10	778	689	46.97	46.97	Somatic	0.000	633	524	45.29	45.29	Somatic	0.000	1	
298273	11	84,850,187	C	T	DLG2	3	intronic	1410	1	0.07	816	720	46.88	46.88	Somatic	0.000	657	519	44.13	44.13	Somatic	0.000	1		
298273	11	90,195,101	C	T	MIRN1261	3	3_prime_flanking_region	488	2	0.41	875	33	3.63	3.63	Somatic	0.000	476	190	28.53	28.53	Somatic	0.000	3		
298273	11	90,560,326	G	A		0	3	0	645	1	0.15	1550	58	3.61	3.61	Somatic	0.000	651	264	28.85	28.85	Somatic	0.000	3	
298273	11	91,477,735	A	C		0	3	0	505	0	0.00	1036	32	3.00	3.00	Somatic	0.000	521	238	31.36	31.36	Somatic	0.000	3	
298273	11	95,834,103	A	G	ENSG00000200411	3	3_prime_flanking_region	1186	4	0.34	670	21	3.04	3.04	Somatic	0.000	449	193	30.06	30.06	Somatic	0.000	3		
298273	11	99,346,018	C	A	CNTN5	3	intronic	1530	1	0.07	1690	1	0.06	0.06	Reference	0.774	1119	340	23.30	23.30	Somatic	0.000	5		
298273	11	100,115,565	T	C		0	3	0	430	0	0.00	748	1	0.13	0.13	Reference	0.635	440	141	24.27	24.27	Somatic	0.000	5	
298273	11	101,180,155	C	T	ANGPTL5	3	intronic	234	0	0.00	344	16	4.44	4.44	Somatic	0.000	317	127	28.60	28.60	Somatic	0.000	3		
298273	11	111,445,960	G	C	PH11D2	3	intronic	1080	11	1.01	408	385	48.55	48.55	Somatic	0.000	649	444	40.62	40.62	Somatic	0.000	1		
298273	11	115,003,778	G	C	ENSG00000211200	2	5_prime_flanking_region	902	0	0.00	364	0	0.00	0.00	Reference	1.000	504	159	23.98	23.98	Somatic	0.000	5		
298273	11	124,597,617	G	T	PKNOX2	3	intronic	5097	3	0.06	339	282	45.41	45.41	Somatic	0.000	857	621	42.02	42.02	Somatic	0.000	1		
298273	11	125,710,173	C	A	DCPS	3	intronic	3375	19	0.56	264	223	45.79	45.79	Somatic	0.000	657	564	46.19	46.19	Somatic	0.000	1		
298273	11	126,670,834	C	A		0	3	0	1084	2	0.18	646	550	45.99	45.99	Somatic	0.000	724	127	14.92	14.92	Somatic	0.000	2	
298273	11	130,423,216	C	T	ENSG00000223216	3	5_prime_flanking_region	3192	1	0.03	1335	1271	48.77	48.77	Somatic	0.000	1354	1083	44.44	44.44	Somatic	0.000	1		
298273	11	132,926,671	G	A	OPCM1	3	5_prime_flanking_region	1772	3	0.17	507	26	4.88	4.88	Somatic	0.000	587	244	29.36	29.36	Somatic	0.000	3		
298273	12	7,204,327	C	G	PEX5	3	5_prime_flanking_region	1747	0	0.00	220	161	42.26	42.26	Somatic	0.000	722	123	14.56	14.56	Somatic	0.000	2		
298273	12	22,831,488	T	C		0	3	0	805	1	0.12	759	0	0.00	0.00	Reference	0.515	455	143	23.91	23.91	Somatic	0.000	5	
298273	12																								

298273	13	80,227,351	C	T	0	3	0	553	0	0.00	445	301	40.35	40.35	Somatic	0.000	478	70	12.77	6.39	Somatic	0.000	2
298273	13	80,639,917	G	A	0	3	0	394	8	1.99	423	298	41.33	41.33	Somatic	0.000	149	351	70.20	35.10	Somatic	0.000	0
298273	13	91,169,982	G	T	GPC5	3	intronic	498	3	0.60	861	31	3.48	3.48	Somatic	0.000	307	335	52.18	26.09	Somatic	0.000	0
298273	13	91,599,672	G	A	GPC5	3	intronic	608	3	0.49	761	601	44.13	44.13	Somatic	0.000	329	640	66.05	33.03	Somatic	0.000	0
298273	13	103,885,443	G	A	0	3	0	1686	5	0.30	893	0	0.00	0.00	Reference	0.120	342	418	55.00	27.50	Somatic	0.000	0
298273	13	104,320,999	A	G	0	2	0	370	3	0.80	556	16	2.80	2.80	Somatic	0.024	208	234	52.94	26.47	Somatic	0.000	0
298273	13	108,433,233	A	G	MYO16	3	intronic	856	7	0.81	588	500	45.96	45.96	Somatic	0.000	263	615	70.05	35.03	Somatic	0.000	0
298273	14	19,292,620	G	A	OR4M1	3	5_prime_flanking_region	1331	14	1.04	1062	417	28.19	28.19	Somatic	0.000	717	308	30.05	30.05	Somatic	0.000	0
298273	14	20,911,418	A	G	SUPT16H	1	silent	1369	2	0.15	360	301	45.54	45.54	Somatic	0.000	422	308	42.19	42.19	Somatic	0.000	1
298273	14	28,503,013	C	A	ENSG00000209481	3	3_prime_flanking_region	893	0	0.00	1363	0	0.00	0.00	Reference	1.000	780	264	25.29	25.29	Somatic	0.000	5
298273	14	53,157,446	C	T	LOC100130681	2	intronic	598	1	0.17	814	30	3.55	3.55	Somatic	0.000	516	213	29.22	29.22	Somatic	0.000	3
298273	14	57,890,045	A	C	ARID4A	3	intronic	741	0	0.00	683	17	2.43	2.43	Somatic	0.000	393	142	26.54	26.54	Somatic	0.000	3
298273	14	60,191,098	T	A	SIX1	2	5_prime_flanking_region	2315	1	0.04	256	200	43.86	43.86	Somatic	0.000	417	346	45.35	45.35	Somatic	0.000	1
298273	14	81,787,164	G	A	0	3	0	430	0	0.00	525	454	46.37	46.37	Somatic	0.000	481	359	42.74	42.74	Somatic	0.000	1
298273	14	82,231,926	C	G	ENSG00000213346	3	5_prime_flanking_region	246	6	2.38	244	37	13.17	13.17	Somatic	0.000	179	14	7.25	7.25	Somatic	0.013	0
298273	14	82,968,790	G	T	0	2	0	1384	2	0.14	570	408	41.72	41.72	Somatic	0.000	637	108	14.50	14.50	Somatic	0.000	2
298273	14	86,804,161	C	T	0	3	0	1146	0	0.00	1110	1	0.09	0.09	Reference	0.492	680	257	27.43	27.43	Somatic	0.000	5
298273	14	94,079,470	A	T	SERPINAS	3	5_prime_flanking_region	1683	0	0.00	479	462	49.10	49.10	Somatic	0.000	768	493	39.10	39.10	Somatic	0.000	1
298273	15	24,149,725	G	A	0	3	0	1161	0	0.00	1148	55	4.57	4.57	Somatic	0.000	735	263	26.35	26.35	Somatic	0.000	3
298273	15	33,223,881	G	A	ENSG00000214149	3	5_prime_flanking_region	34	0	0.00	56	35	38.46	38.46	Somatic	0.000	41	38	48.10	48.10	Somatic	0.000	0
298273	15	36,230,735	A	G	0	3	0	405	0	0.00	280	189	40.30	40.30	Somatic	0.000	266	48	15.29	15.29	Somatic	0.000	2
298273	15	46,894,172	T	C	CEP152	3	5_prime_flanking_region	1103	0	0.00	697	625	47.28	47.28	Somatic	0.000	546	478	46.68	46.68	Somatic	0.000	1
298273	15	84,865,228	T	C	AGBL1	3	intronic	598	2	0.33	1240	42	3.28	3.28	Somatic	0.000	554	283	33.81	33.81	Somatic	0.000	3
298273	15	91,987,033	T	G	0	3	0	660	1	0.15	696	26	3.60	3.60	Somatic	0.000	488	178	26.73	26.73	Somatic	0.000	3
298273	16	486,602	G	A	RAB11FIP3	3	intronic	364	1	0.27	88	2	2.22	2.22	Reference	0.101	358	144	28.69	28.69	Somatic	0.000	5
298273	16	7,138,560	T	C	A2BP1	3	intronic	1523	55	3.49	834	767	47.91	47.91	Somatic	0.000	792	584	42.44	42.44	Somatic	0.000	1
298273	16	13,552,157	T	C	0	3	0	2020	5	0.25	709	624	46.81	46.81	Somatic	0.000	614	471	43.41	43.41	Somatic	0.000	1
298273	16	22,050,004	C	T	VWA3A	3	intronic	2282	3	0.13	824	0	0.00	0.00	Reference	0.397	937	298	24.13	24.13	Somatic	0.000	5
298273	16	25,584,644	G	T	HS3ST4	3	5_prime_flanking_region	582	4	0.68	1584	48	2.94	2.94	Somatic	0.001	748	277	27.02	27.02	Somatic	0.000	3
298273	16	34,927,267	C	T	ENSG00000213541	3	5_prime_flanking_region	1383	1	0.07	911	654	41.79	41.79	Somatic	0.000	903	173	16.08	16.08	Somatic	0.000	2
298273	16	46,615,746	G	A	CDH8	2	intronic	773	2	0.26	465	400	46.24	46.24	Somatic	0.000	358	271	43.08	43.08	Somatic	0.000	1
298273	16	62,478,488	G	A	0	3	0	871	0	0.00	542	508	48.38	48.38	Somatic	0.000	473	349	42.46	42.46	Somatic	0.000	1
298273	16	69,682,860	G	A	HYDIN	3	intronic	2463	13	0.53	2131	694	24.57	24.57	Somatic	0.000	1672	475	22.12	22.12	Somatic	0.000	0
298273	16	75,411,777	C	T	0	3	0	1182	2	0.17	1173	1	0.09	0.09	Reference	0.874	733	242	24.82	24.82	Somatic	0.000	5
298273	16	87,051,015	C	T	ZFPM1	2	intronic	628	0	0.00	29	17	36.96	36.96	Somatic	0.000	150	124	45.26	45.26	Somatic	0.000	0
298273	17	165,565	G	C	LOC653414	1	rna	18	0	0.00	75	8	9.64	9.64	Somatic	0.195	214	19	8.15	8.15	Somatic	0.230	0
298273	17	69,233,377	G	A	NXN	3	intronic	621	9	1.43	49	27	35.53	35.53	Somatic	0.000	251	27	9.71	9.71	Somatic	0.000	0
298273	17	7,631,331	G	A	DNAH2	2	intronic	1201	1	0.08	427	0	0.00	0.00	Reference	0.738	858	297	25.71	25.71	Somatic	0.000	5
298273	17	27,638,703	G	A	RHBDL3	3	intronic	1297	1	0.08	80	49	37.98	37.98	Somatic	0.000	320	47	12.81	12.81	Somatic	0.000	2
298273	17	35,277,208	G	A	IKZF3	3	5_prime_flanking_region	784	1	0.13	889	35	3.79	3.79	Somatic	0.000	644	277	30.08	30.08	Somatic	0.000	3
298273	17	36,838,941	G	A	KRT37	3	5_prime_flanking_region	1053	2	0.19	167	182	52.15	52.15	Somatic	0.000	487	349	41.75	41.75	Somatic	0.000	1
298273	17	48,181,522	G	A	0	3	0	204	0	0.00	188	4	2.08	2.08	Somatic	0.054	157	47	23.04	23.04	Somatic	0.000	3
298273	17	58,862,120	C	A	TANC2	3	intronic	942	0	0.00	1040	27	2.53	2.53	Somatic	0.000	696	302	30.26	30.26	Somatic	0.000	3
298273	17	71,178,095	T	G	SAP30B	3	intronic	1081	11	1.01	261	210	44.59	44.59	Somatic	0.000	300	284	48.63	48.63	Somatic	0.000	1
298273	17	72,489,244	G	A	MGAT5B	3	3_prime_flanking_region	778	1	0.13	41	36	46.75	46.75	Somatic	0.000	179	131	42.26	42.26	Somatic	0.000	1
298273	17	75,695,346	G	A	GAA	3	intronic	380	0	0.00	41	31	43.06	43.06	Somatic	0.000	183	109	37.33	37.33	Somatic	0.000	1
298273	18	8,530,862	G	A	LOC100134367	3	5_prime_flanking_region	523	0	0.00	292	270	48.04	48.04	Somatic	0.000	336	215	39.02	39.02	Somatic	0.000	1
298273	18	14,941,231	T	C	LOC647983	3	3_prime_flanking_region	441	1	0.23	156	133	46.02	46.02	Somatic	0.000	382	51	11.78	11.78	Somatic	0.000	2
298273	18	24,726,245	C	T	LOC100134005	3	3_prime_flanking_region	688	1	0.15	646	546	45.81	45.81	Somatic	0.000	427	339	44.26	44.26	Somatic	0.000	1
298273	18	29,490,661	T	G	ASXL3	2	intronic	435	21	4.61	1336	105	7.29	7.29	Somatic	0.026	785	77	8.93	8.93	Somatic	0.002	4
298273	18	42,198,918	G	A	RNF165	3	intronic	580	0	0.00	86	80	48.19	48.19	Somatic	0.000	242	170	41.26	41.26	Somatic	0.000	1
298273	18	43,240,928	T	C	0	3	0	1209	1	0.08	2288	1	0.04	0.04	Reference	0.880	1371	517	27.38	27.38	Somatic	0.000	5
298273	18	44,008,396	G	A	C18orf12	2	5_prime_flanking_region	1042	4	0.38	346	288	45.43	45.43	Somatic	0.000	398	325	44.95	44.95	Somatic	0.000	1
298273	18	44,854,310	G	A	DYM	3	intronic	758	2	0.26	599	24	3.85	3.85	Somatic	0.000	377	144	27.64	27.64	Somatic	0.000	3
298273	18	48,804,253	C	T	DCC	2	intronic	703	1	0.14	1188	1	0.08	0.08									

298273	21	42,406,907	G	A	UMODL1	1	missense	382	0	0.00	23	30	56.60	56.60	Somatic	0.000	156	115	42.44	42.44	Somatic	0.000	0		
298273	21	43,860,145	A	G	HSF2BP	3	intronic	520	0	0.00	870	0	0.00	0.00	Reference	1.000	706	252	26.30	26.30	Somatic	0.000	5		
298273	22	15,539,106	C	T	ENSG00000189295	3	intronic	461	2	0.43	400	0	0.00	0.00	Reference	0.288	358	124	25.73	25.73	Somatic	0.000	5		
298273	22	16,569,504	C	T	BCL2L13	3	intronic	716	2	0.00	565	1	0.00	0.00	Reference	0.825	416	157	27.40	27.40	Somatic	0.000	5		
298273	22	17,036,328	G	T	USP18	3	intronic	1099	1	0.09	200	0	0.00	0.00	Reference	0.846	274	106	27.89	27.89	Somatic	0.000	5		
298273	22	19,486,627	C	G	PI4KA	3	intronic	729	0	0.00	392	24	5.77	5.77	Somatic	0.000	456	172	27.39	27.39	Somatic	0.000	3		
298273	22	46,146,245	G	A		0	3		0	608	0	0.00	123	9	6.82	6.82	Somatic	0.000	307	121	28.27	28.27	Somatic	0.000	3
298273	22	47,861,239	A	G		0	3		0	1069	0	0.00	135	0	0.00	0.00	Reference	1.000	365	133	26.71	26.71	Somatic	0.000	5
298273	22	48,285,831	G	A	FLJ44385	3	5_prime_flanking_region	2844	19	0.66	305	0	0.00	0.00	Reference	0.145	528	187	26.15	26.15	Somatic	0.000	5		
298273	22	49,472,748	T	C	SHANK3	2	intronic	125	0	0.00	17	14	45.16	45.16	Somatic	0.000	80	17	17.53	17.53	Somatic	0.000	2		
298273	X	9,583,082	G	A	TBL1X	2	intronic	905	0	0.00	28	294	91.30	45.65	Somatic	0.000	68	461	87.15	43.58	Somatic	0.000	1		
298273	X	15,472,316	G	A	BMX	3	intronic	367	7	1.87	30	520	94.55	47.28	Somatic	0.000	63	360	85.11	42.56	Somatic	0.000	1		
298273	X	26,670,597	T	C	ENSG00000170817	3	5_prime_flanking_region	300	0	0.00	18	296	94.27	47.14	Somatic	0.000	39	271	87.42	43.71	Somatic	0.000	1		
298273	X	31,269,304	G	A	DMD	3	intronic	482	1	0.21	22	411	94.92	47.46	Somatic	0.000	52	413	88.82	44.41	Somatic	0.000	1		
298273	X	33,080,649	G	C	DMD	3	intronic	232	0	0.00	328	1	0.30	0.15	Reference	0.586	157	151	49.03	24.52	Somatic	0.000	5		
298273	X	34,564,832	C	T	TMEM47	3	intronic	630	0	0.00	106	641	85.81	42.91	Somatic	0.000	348	143	29.12	14.56	Somatic	0.000	2		
298273	X	65,684,539	T	C	EDA2R	3	3_prime_flanking_region	531	3	0.56	48	618	92.79	46.40	Somatic	0.000	56	435	88.59	44.30	Somatic	0.000	1		
298273	X	81,609,435	C	T	ENSG00000216941	2	3_prime_flanking_region	141	1	0.70	85	540	86.40	43.20	Somatic	0.000	285	110	27.85	13.93	Somatic	0.000	2		
298273	X	87,425,370	T	G		0	2		0	344	1	0.29	722	0	0.00	0.00	Reference	0.323	250	276	52.47	26.24	Somatic	0.000	5
298273	X	98,809,437	A	G		0	3		0	367	5	1.34	21	325	93.93	46.97	Somatic	0.000	38	253	86.94	43.47	Somatic	0.000	1
298273	X	133,585,544	G	A	PLAC1	3	intronic	403	1	0.25	533	1	0.19	0.10	Reference	0.815	233	249	51.66	25.83	Somatic	0.000	5		

Supplementary Table 3. Annotated Tier 1 mutations in MDS and sAML.

Chromosome	Position*	Reference allele	Variant allele	UPN	Gene symbol	Transcript ID	Strand	Mutation type	Zygosity	Coding position	Amino acid change	Mutated in MDS	Mutated in sAML
1	16,899,091	G	A	667720	ESPNP	ENST00000270691	-1	silent	Het	c.1182	C394	Y	Y
1	16,955,010	C	G	182896	MSTP9	NR_002729	-1	rrna	Het	NULL	NULL	N	Y
1	26,321,048	C	T	610184	PDIK1L	NM_152835	1	missense	Het	c.419	T140I	Y	Y
1	34,456,883	G	A	667720	C1orf94	NM_032884	1	silent	Het	c.1161	S387	Y	Y
1	40,440,683	T	C	667720	RLF	NM_012421	1	missense	Het	c.620	I207T	Y	Y
1	45,931,884	C	T	298273	TMEM69	NM_016486	1	missense	Het	c.464	A155V	Y	Y
1	52,074,694	C	G	461282	NRD1	NM_002525	-1	missense	Het	769	A257P	N	Y
1	84,436,042	T	A	667720	PRKACB	NM_182948	1	missense	Het	c.730	W244R	Y	Y
1	112,325,945	G	T	266395	KCND3	NM_004980	-1	synonymous	Het	c.927	I309	Y	Y
1	117,354,197	C	G	461282	IGSF2	NM_004258	1	nonsense	Het	246	Y82*	N	Y
1	150,046,599	G	A	461282	RORC	NM_005060	-1	synonymous	Het	1530	T510	Y	Y
1	181,765,168	G	T	298273	SMG7	NM_173156	1	silent	Het	c.720	V240	Y	Y
1	199,210,472	C	T	182896	KIF21B	NM_017596	-1	missense	Het	c.4768	A1590T	N	Y
1	205,309,412	C	G	266395	PFKFB2	NM_006212	1	synonymous	Het	c.1008	T336	Y	Y
1	212,617,972	G	A	182896	PTPN14	NM_005401	-1	missense	Het	c.2641	R881W	N	Y
1	212,722,877	A	G	182896	LOC643454	XR_042294	-1	rrna	Het	NULL	NULL	N	Y
1	229,096,537	T	C	266395	ENSG00000222671	ENST00000410739	1	non-coding RNA	Het	NA	NA	Y	Y
2	10,865	T	A	182896	LOC730658	XM_001126705	1	missense	Het	c.559	Y187N	N	Y
2	895,903	G	T	182896	LOC391343	NM_001013662	-1	missense	Het	c.43	L15M	Y	Y
2	20,289,990	C	T	266395	LOC100131373	XM_001720891	1	synonymous	Het	c.261	A87	Y	Y
2	54,424,497	A	T	667720	C2orf73	NM_001100396	1	missense	Het	c.371	K124M	Y	Y
2	61,569,230	T	A	266395	XPO1	NM_003400	-1	missense	Het	c.2203	N735Y	Y	Y
2	100,466,155	G	A	298273	NMS	NM_001011717	1	nonsense	Het	c.459	W153*	Y	Y
2	128,992,911	T	A	667720	LOC100130549	XR_039102	-1	rrna	Het	NULL	NULL	Y	Y
2	132,826,842	C	T	182896	LOC339742	XM_929883	1	silent	Het	c.216	S72	N	Y
2	211,223,356	C	T	298273	CPS1	NM_001875	1	silent	Het	c.3429	F1143	N	Y
2	215,573,902	G	A	461282	ABCA12	NM_173076	-1	missense	Het	2951	T984I	Y	Y
2	227,876,058	C	T	288033	COL4A3	NM_000091	1	missense	Het	c.3943	P1315S	Y	Y
3	47,437,451	G	A	298273	SCAP	NM_012235	-1	silent	Het	c.1318	L440	N	Y
3	129,682,668	G	T	667720	GATA2	NM_032638	-1	missense	Het	c.1327	L443I	Y	Y
3	130,856,508	T	C	298273	TMCC1	NM_001017395	-1	missense	Het	c.1640	D547G	Y	Y
3	145,187,161	A	G	610184	C3orf58	NM_173552	1	silent	Het	c.744	E248	Y	Y
3	173,529,456	C	A	266395	FNDC3B	NM_022763	1	missense	Het	c.1275	F425L	Y	Y
4	9,313,945	A	G	610184	LOC644517	XR_042369	1	rrna	Het	NULL	NULL	N	Y
4	13,210,583	G	A	182896	BOD1L	NM_148894	-1	missense	Het	c.7039	H2347Y	Y	Y
4	17,494,716	T	C	461282	LCORL	ENST00000382224	-1	missense	Het	1282	S428G	Y	Y
4	39,112,595	C	T	182896	KLB	NM_175737	1	missense	Het	c.1196	A399V	Y	Y
4	103,830,842	G	A	288033	MANBA	NM_005908	-1	missense	Het	c.808	P270S	Y	Y
4	175,834,876	C	A	182896	GLRA3	NM_006529	-1	missense	Het	c.855	R285S	Y	Y
5	28,022,124	G	A	667720	ENSG00000221721	ENST00000408794	-1	rrna	Het	NULL	NULL	Y	Y
5	50,152,869	C	G	266395	PARP8	NM_024615	1	missense	Het	c.1734	F578L	Y	Y
5	141,674,882	G	A	182896	SPRY4	NM_030964	-1	silent	Het	c.45	S15	N	Y
5	148,880,083	T	G	266395	CSNK1A1	NM_001025105	-1	missense	Het	c.419	D140A	Y	Y
5	157,050,240	C	A	182896	LOC442142	XR_016528	-1	rrna	Het	NULL	NULL	Y	Y
5	170,770,148	0	ins[TCTG]	298273	NPM1	NM_002520	1	frame_shift_ins	Het	c.859	W288fs	Y	Y
5	178,351,775	G	A	182896	GRM6	ENST00000319065	-1	silent	Het	c.264	P88	N	Y
6	14,085,851	G	A	182896	RNF182	NM_152737	1	silent	Het	c.522	T174	N	Y
6	39,148,686	G	A	667720	GLP1R	NM_002062	1	missense	Het	c.580	V194I	Y	Y

6	105,713,110	C	A	266395	POPDC3	NM_022361	-1	missense	Het	c.804	M268I	Y	Y	
6	168,451,501	C	T	182896	DACT2	ENST00000366795	-1	silent	Het	c.1785	A595	N	Y	
7	21,697,024	G	A	182896	DNAH11	ENST00000328843	1	missense	Het	c.6062	R2021K	N	Y	
7	26,544,649	C	T	667720	KIAA0087	ENST00000242109	-1	missense	Het	c.50	C17Y	Y	Y	
7	43,451,609	C	T	610184	HECW1	NM_015052	1	silent	Het	c.2313	D771	Y	Y	
7	52,785,934	G	T	298273	LOC100134778		XM_001726838	1	missense	Het	c.101	R34M	Y	Y
7	72,648,712	G	A	182896	MLXIPL	NM_032951	-1	missense	Het	c.1856	S619F	N	Y	
7	82,622,564	C	T	667720	PCLO	ENST00000333891	-1	splice_site	Het	c.1327+2	e2+2	N	Y	
7	95,060,119	C	G	610184	PDK4	NM_002612	-1	missense	Het	c.418	E140Q	Y	Y	
7	100,625,938	C	T	288033	MOGAT3	ENST00000379423	-1	missense	Het	c.832	A278T	Y	Y	
7	150,888,623	A	C	298273	PRKAG2	NM_016203	-1	missense	Het	c.1598	V533G	N	Y	
8	17,456,502	T	G	182896	SLC7A2	NM_001008539	1	splice_site	Het	c.1195+2	e6+2	N	Y	
8	145,012,694	C	T	182896	EPPK1	NM_031308	-1	missense	Het	c.6641	R2214H	N	Y	
9	19,351,960	T	G	667720	DENND4C	NM_017925	1	missense	Het	c.4668	F1556L	Y	Y	
9	26,988,067	A	G	461282	LRRC19	NM_022901	-1	missense	Het	254	V85A	Y	Y	
9	70,304,049	C	T	461282	PGM5	NM_021965	1	synonymous	Het	1566	Y522	Y	Y	
9	84,860,393	C	T	182896	RASEF	ENST00000340717		-1	missense	Het	c.457	A153T	Y	Y
9	89,535,224	T	G	266395	CTSL1	NM_001912	1	missense	Het	c.893	V298G	Y	Y	
9	89,693,204	G	C	288033	C9orf79	NM_178828	1	missense	Het	c.3982	V1328L	Y	Y	
9	102,028,326	G	A	461282	INVS	NM_014425	1	synonymous	Het	435	Q145	N	Y	
9	115,120,598	C	T	610184	WDR31	NM_001012361	-1	silent	Het	c.921	K307	Y	Y	
9	120,969,977	G	A	667720	DBC1	NM_014618	-1	missense	Het	c.1492	R498C	Y	Y	
9	138,867,831	C	T	266395	MAMDC4	NM_206920	1	synonymous	Het	c.342	A114	Y	Y	
10	34,613,165	C	T	610184	PARD3	NM_019619	-1	missense	Het	c.3089	R1030Q	Y	Y	
10	73,160,357	0	ins[CTT]	288033	CDH23	NM_022124	1	in_frame_ins	Het	c.3705	1235in_frame_insL		N	Y
10	82,288,101	G	A	266395	SH2D4B	NM_207372	1	missense	Het	c.34	D12N	Y	Y	
10	87,477,649	G	A	182896	GRID1	NM_017551	-1	silent	Het	c.1476	Y492	N	Y	
10	99,609,293	A	G	461282	GOLGA7B	NM_001010917	1	missense	Het	101	Q34R	N	Y	
10	104,925,381	G	A	288033	LOC729081	XR_042329	1	rna	Het	NULL	NULL	Y	Y	
10	112,330,651	G	A	298273	SMC3	NM_005445	1	splice_site	Het	c.430-1	e8-1	Y	Y	
10	126,509,939	G	C	461282	FAM175B	NM_032182	1	missense	Het	695	R232P	N	Y	
11	1,006,618	G	C	182896	MUC6	NM_005961	-1	silent	Het	c.6183	A2061	N	Y	
11	3,709,314	C	G	610184	NUP98	NM_016320	-1	missense	Het	c.1613	R538P	N	Y	
11	5,381,238	C	T	182896	OR51J1	ENST00000332043		1	missense	Het	c.836	A279V	N	Y
11	8,690,768	T	C	610184	ST5	NM_005418	-1	missense	Het	c.2078	E693G	N	Y	
11	12,198,538	C	G	266395	MICAL2	NM_014632	1	missense	Het	c.1163	A388G	Y	Y	
11	22,340,860	G	T	266395	SLC17A6	NM_020346	1	splice_site	Het	c.662-1	e6-1	Y	Y	
11	30,793,632	C	T	610184	LOC100134181		XM_001717375	1	missense	Het	c.595	H199Y	Y	Y
11	30,881,639	A	G	266395	DCDC5	ENST00000406071		-1	synonymous	Het	c.1806	V602	Y	Y
11	32,370,819	G	C	461282	WT1	NM_024426	-1	missense	Het	1308	D436E	N	Y	
11	35,284,259	G	A	667720	SLC1A2	NM_004171	-1	missense	Het	c.668	P223L	N	Y	
11	54,867,516	C	T	667720	OR4A16	NM_001005274	1	silent	Het	c.264	I88	Y	Y	
11	55,701,505	C	T	667720	OR5J2	NM_001005492	1	missense	Het	c.836	T279M	Y	Y	
11	63,839,797	G	C	288033	ESRRRA	NM_004451	1	missense	Het	c.1055	R352P	Y	Y	
11	87,203,195	C	T	182896	ENSG00000210663		ENST00000387928	-1	rna	Het	NULL	NULL	N	Y
11	89,017,846	A	T	610184	uc001pda.1	ENST00000389724		1	silent	Het	c.192	A64	Y	Y
11	102,631,404	A	T	182896	DYNC2H1	NM_001080463	1	missense	Het	c.10278	K3426N	Y	Y	
11	123,562,114	C	T	667720	OR10D3P	ENST00000318666		1	missense	Het	c.928	P310S	Y	Y
11	131,812,390	G	A	667720	OPCML	NM_002545	-1	silent	Het	c.600	Y200	Y	Y	
12	536,010	G	A	667720	B4GALNT3	NM_173593	1	silent	Het	c.2097	K699	Y	Y	
12	623,460	C	A	288033	ENSG00000177406		ENST00000318291	1	silent	Het	c.811	R271	Y	Y
12	3,051,251	C	A	667720	LOC387825	XR_016298	-1	rna	Het	NULL	NULL	N	Y	

12	51,085,704	A	G	667720	LOC100128683	XM_001718426	1	missense	Het	c.6	I2M	N	Y
12	67,233,465	G	A	610184	LOC387867	XM_001726521	-1	silent	Het	c.465	R155	Y	Y
12	111,372,545	G	C	667720	PTPN11	NM_002834	1	missense	Het	c.178	G60R	N	Y
12	112,037,431	C	T	610184	RASAL1	NM_004658	-1	missense	Het	c.1025	R342H	Y	Y
12	131,711,428	C	T	288033	POLE	NM_006231	-1	silent	Het	c.6789	Q2263	N	Y
13	47,971,879	C	T	298273	RCBTB2	NM_001268	-1	silent	Het	c.1263	S421	Y	Y
14	19,298,539	C	T	182896	OR4H12P	ENST00000316004	1	nonsense	Het	c.631	R211*	Y	Y
14	20,911,418	A	G	298273	SUPT16H	NM_007192	-1	silent	Het	c.78	D26	Y	Y
14	63,614,979	A	G	182896	SYNE2	NM_182914	1	missense	Het	c.11065	R3689G	Y	Y
14	75,418,958	G	A	266395	TTL5	NM_015072	1	missense	Het	c.3700	E1234K	Y	Y
14	92,467,695	G	A	461282	CHGA	NM_001275	1	missense	Het	703	E235K	N	Y
15	22,474,636	G	A	667720	C15orf2	NM_018958	1	silent	Het	c.2529	R843	Y	Y
15	25,933,590	C	T	461282	OCA2	NM_000275	-1	missense	Het	971	R324H	Y	Y
15	39,829,808	G	A	182896	MGA	NM_001080541	1	silent	Het	c.6858	L2286	Y	Y
15	40,088,591	T	C	288033	LOC100129266	XM_001719008	1	missense	Het	c.1034	L345P	Y	Y
15	65,886,050	A	T	461282	MAP2K5	NM_145160	1	missense	Het	1255	I419F	Y	Y
15	76,353,786	G	A	610184	DNAJA4	NM_018602	1	missense	Het	c.611	R204H	Y	Y
15	98,619,240	G	A	667720	ADAMTS17	NM_139057	-1	missense	Het	c.998	P333L	Y	Y
16	2,746,397	C	T	667720	SRRM2	NM_016333	1	missense	Het	c.31	R11W	Y	Y
16	3,206,458	G	A	667720	OR1F2P	NR_002169	1	rna	Het	NULL	NULL	Y	Y
16	5,252,457	A	G	610184	LOC100129495	XR_038813	-1	rna	Het	NULL	NULL	Y	Y
16	7,716,860	C	T	266395	ENSG00000209555	ENST00000386820	-1	non-coding RNA	Het	NA	NA	Y	Y
16	33,870,177	G	A	667720	ENSG00000200002	ENST00000363132	1	rna	Het	NULL	NULL	N	Y
16	54,079,978	C	T	461282	MMP2	NM_004530	1	synonymous	Het	855	N285	Y	Y
16	63,589,987	C	T	266395	CDH11	NM_001797	-1	missense	Het	c.502	V168M	Y	Y
16	70,318,523	0	ins[GGAGAG]	461282	LOC100127951	XM_001726747	1	insertion	Het	55_56	M19RRV	N	Y
17	165,565	G	C	298273	LOC653414	XR_016817	-1	rna	Het	NULL	NULL	Y	Y
17	261,803	T	C	610184	LOC730605	XM_001716172	-1	missense	Het	c.115	R39G	Y	Y
17	5,288,451	T	G	266395	DHX33	NM_020162	-1	missense	Het	c.1922	Y641S	Y	Y
17	5,402,550	G	C	461282	NLRP1	NM_033004	-1	missense	Hemi	2190	F730L	N	Y
17	6,630,864	C	G	461282	FBXO39	NM_153230	1	missense	Hemi	1065	D355E	Y	Y
17	7,517,849	C	T	610184	TP53	NM_000546	-1	missense	Het	c.814	V272M	Y	Y
17	7,696,343	T	G	266395	JMJD3	NM_001080424	1	missense	Het	c.4432	C1478G	Y	Y
17	10,291,145	C	T	288033	MYH4	NM_017533	-1	silent	Het	c.5079	R1693	Y	Y
17	24,261,207	C	T	461282	PHF12	ENST00000378879	-1	missense	Hemi	2522	R841K	Y	Y
17	29,981,226	C	T	266395	TMEM132E	NM_207313	1	synonymous	Het	c.1155	L385	Y	Y
17	75,696,250	G	A	266395	GAA	NM_000152	1	synonymous	Het	c.915	G305	Y	Y
18	12,063,653	A	G	182896	LOC728211	XR_015403	-1	rna	Het	NULL	NULL	Y	Y
18	46,165,704	G	A	266395	C18orf24	NM_001039535	1	silent	Het	c.432	E144	Y	Y
18	73,092,005	C	T	667720	GALR1	NM_001480	1	silent	Het	c.513	A171	Y	Y
19	2,229,969	G	C	461282	C19orf35	NM_198532	-1	missense	Het	226	L76V	N	Y
19	8,342,034	C	T	298273	ANGPTL4	NM_139314	1	silent	Het	c.756	H252	Y	Y
19	12,710,408	C	G	667720	ASNA1	NM_004317	1	missense	Het	c.245	A82G	Y	Y
19	13,802,346	C	G	288033	ZSWIM4	NM_023072	1	missense	Het	c.2452	P818A	Y	Y
19	15,411,454	C	A	288033	WIZ	ENST00000389282	-1	missense	Het	c.958	A320S	Y	Y
19	15,448,174	G	C	610184	PGLYRP2	NM_052890	-1	missense	Het	c.307	R103G	Y	Y
19	50,408,180	C	T	298273	EXOC3L2	NM_138568	-1	missense	Het	c.1217	R406Q	Y	Y
19	53,579,461	T	G	266395	KDELRL1	NM_006801	-1	missense	Het	c.442	T148P	Y	Y
19	54,349,852	A	G	266395	HRC	NM_002152	-1	missense	Het	c.455	L152P	Y	Y
20	32,728,482	A	C	266395	PIGU	NM_080476	-1	missense	Het	c.69	S23R	Y	Y
20	32,965,857	A	C	266395	ACSS2	NM_018677	1	missense	Het	c.790	T264P	Y	Y
20	36,812,181	G	A	461282	ACTR5	NM_024855	1	missense	Hemi	490	G164R	N	Y

20	43,157,008	A	T	288033	KCNS1	NM_002251	-1	missense	Het	c.1498	S500T	Y	Y
20	51,626,823	T	C	266395	ZNF217	NM_006526	-1	synonymous	Het	c.1887	R629	Y	Y
20	57,202,013	G	A	288033	ZNF831	NM_178457	1	silent	Het	c.2544	T848	Y	Y
21	35,174,726	O	ins[T]	667720	RUNX1	NM_001754	-1	frame_shift_ins	Het	c.506	G170fs	N	Y
21	38,593,376	T	A	182896	KCNJ15	NM_002243	1	missense	Het	c.323	I108N	Y	Y
21	42,034,945	G	A	182896	RIPK4	NM_020639	-1	missense	Het	c.1477	R493W	N	Y
21	42,402,818	A	C	266395	UMODL1	NM_173568	1	missense	Het	c.1597	T533P	Y	Y
21	42,406,907	G	A	298273	UMODL1	NM_173568	1	missense	Het	c.2644	V882M	Y	Y
21	43,397,525	G	A	266395	U2AF1	NM_001025203	-1	missense	Het	c.101	S34F	Y	Y
22	30,794,525	C	G	461282	SLC5A1	NM_000343	1	missense	Het	415	Q139E	N	Y
22	40,072,057	C	T	288033	ZC3H7B	NM_017590	1	missense	Het	c.1564	R522C	Y	Y
22	40,626,904	T	C	667720	MIRN33A	ENST00000385197	1	rna	Het	NULL	NULL	Y	Y
22	45,309,671	G	C	461282	CELSR1	NM_014246	-1	missense	Het	2061	F687L	N	Y
22	49,307,050	G	A	288033	NCAPH2	NM_152299	1	missense	Het	c.1015	V339M	Y	Y
X	123,027,914	O	ins[A]	667720	STAG2	NM_001042749	1	frame_shift_ins	Het	c.2212	H738fs	Y	Y
X	131,989,672	C	A	610184	USP26	NM_031907	-1	missense	Het	c.243	L81F	N	Y
X	135,589,389	O	ins[A]	298273	ARHGEF6	NM_004840	-1	frame_shift_ins	Het	c.1801	R601fs	Y	Y

Supplementary Table 4. Somatic copy number alterations and Copy-Neutral LOH in the MDS and sAML genomes.

probe ID	Chromosome	Status	HMM (1kb)		Capture Validation*		SNPs (MDS)			SNPs (sAML)			
			Start	End	confirmed in	MD5?	in sAMU?	Start	End	CN	Start	End	CN
461282	5	Deletion	2,770,000	3,250,000	n.e.	n.e.	n.e.	1,026,000	1,106,000	n.d.	2,259,210	3,250,000	1.05
461282	5	Deletion	3,360,000	5,536,000	yes	yes	n.d.	n.d.	n.d.	3,366,881	5,538,695	1.13	
461282	5	Deletion	33,920,000	35,415,000	n.e.	n.e.	n.d.	n.d.	n.d.	33,022,641	35,416,102	1.16	
461282	5	Deletion	49,476,000	52,076,000	n.e.	n.e.	n.d.	n.d.	n.d.	49,473,151	52,076,051	1.11	
461282	5	Deletion	58,835,000	62,688,000	yes	yes	n.d.	n.d.	n.d.	58,835,600	62,688,830	1.14	
461282	5	Deletion	104,727,000	111,937,000	yes	yes	n.d.	n.d.	n.d.	104,726,750	111,937,750	1.13	
461282	5	Deletion	112,750,000	116,957,000	yes	yes	n.d.	n.d.	n.d.	112,750,551	116,958,373	1.13	
461282	5	Deletion	117,622,000	122,290,000	n.e.	n.e.	n.d.	n.d.	n.d.	117,619,744	122,300,835	1.12	
461282	5	Deletion	145,406,000	150,022,000	no	yes	145,424,550	157,794,326	1.59	145,407,076	149,889,938	1.14	
461282	17	Deletion	1	81,195,210	n.e.	yes	526	8,325,061	1.26	526	78,643,089	1.19	
461282	20	Deletion	30,310,000	45,070,000	yes	yes	30,305,005	45,065,880	1.29	30,305,442	45,067,674	1.11	
607723	7	Deletion	118,238,000	119,137,000	n.e.	n.e.	119,233,565	119,136,002	1.41	119,236,373	119,138,302	1.40	
610184	1	Amplification	4,186,000	5,574,000	yes	yes	575,534	6,719,542	3.04	51,598	6,719,542	3.06	
610184	1	Amplification	7,139,000	16,533,000	yes	yes	6,993,446	16,649,833	3.11	6,993,446	16,692,713	3.15	
610184	1	Deletion	16,731,000	18,541,000	yes	yes	16,721,361	18,543,551	1.24	16,692,713	18,541,562	1.29	
610184	1	Amplification	19,296,000	22,722,000	yes	yes	18,665,148	23,224,497	3.14	18,665,691	23,248,776	3.18	
610184	1	Deletion	24,227,000	24,457,000	yes	yes	23,265,264	24,457,911	1.27	23,265,264	24,457,911	1.32	
610184	1	Amplification	25,492,000	25,710,000	yes	yes	24,801,111	25,710,757	3.11	24,801,111	25,830,000	3.12	
610184	1	Deletion	26,372,000	29,465,000	yes	yes	26,342,745	26,465,555	1.32	26,330,020	29,489,498	3.14	
610184	1	Amplification	29,805,000	65,484,000	yes	yes	29,468,555	65,485,373	3.44	29,468,430	65,495,607	3.48	
610184	1	Amplification	76,995,000	79,323,000	n.a.	n.a.	76,995,561	79,322,233	3.12	76,995,561	79,322,231	3.19	
610184	1	Amplification	89,274,000	98,566,000	yes	yes	89,235,951	98,575,346	3.11	89,235,951	98,566,690	3.21	
610184	2	Deletion	13,402,000	14,000,000	yes	yes	2,784	13,404,817	1.26	2,784	13,404,817	1.27	
610184	2	Deletion	18,000,000	18,400,000	yes	yes	13,958,565	18,400,800	1.14	13,958,565	18,400,800	1.23	
610184	2	Amplification	20,859,000	21,481,000	yes	yes	20,863,502	21,481,908	2.87	20,863,502	21,481,655	3.10	
610184	2	Amplification	22,390,000	22,982,000	yes	yes	22,355,991	22,983,654	3.06	22,355,322	22,983,654	3.21	
610184	2	Amplification	35,497,000	35,826,000	yes	yes	35,565,826	35,857,220	2.98	35,575,582	35,825,505	3.17	
610184	2	Amplification	37,492,000	38,100,000	n.d.	yes	36,327,507	38,360,050	3.00	36,316,063	36,360,505	3.07	
610184	2	Deletion	54,265,000	54,910,000	yes	yes	37,478,113	56,123,831	3.11	37,478,219	58,123,837	3.45	
610184	2	Deletion	55,182,000	55,461,000	yes	yes	54,023,453	55,425,205	1.29	54,023,453	55,425,207	1.37	
610184	2	Deletion	57,714,000	57,888,000	yes	yes	57,714,365	57,889,995	1.22	57,714,365	57,889,995	1.24	
610184	2	Deletion	70,811,000	74,839,000	yes	yes	70,809,476	74,841,439	1.31	70,809,476	74,841,328	1.31	
610184	2	Deletion	204,924,708	204,954,223	n.e.	n.e.	204,925,289	204,950,610	1.26	204,925,289	204,950,610	1.22	
610184	5	Deletion	59,621,000	156,879,000	yes	yes	59,628,798	156,879,131	1.19	59,628,798	156,879,131	1.24	
610184	7	Deletion	11,230,000	12,200,000	yes	yes	n.d.	n.d.	n.d.	52,917	12,735,753	1.48	
610184	7	Amplification	2,041,000	2,150,000	yes	yes	n.d.	n.d.	n.d.	1,674,675	2,401,101	1.56	
610184	7	Deletion	2,696,000	3,433,000	no	yes	n.d.	n.d.	n.d.	2,579,988	3,426,890	1.48	
610184	7	Deletion	5,123,000	11,461,000	no	yes	n.d.	n.d.	n.d.	5,140,375	11,467,478	1.44	
610184	7	Deletion	14,672,000	19,658,000	no	yes	n.d.	n.d.	n.d.	14,671,161	19,678,928	1.36	
610184	7	Deletion	26,313,000	29,832,000	no	yes	n.d.	n.d.	n.d.	26,311,001	29,832,480	1.45	
610184	7	Deletion	31,779,000	43,165,000	yes	yes	n.d.	n.d.	n.d.	31,779,000	43,179,544	1.41	
610184	7	Deletion	43,679,000	51,695,000	n.d.	yes	n.d.	n.d.	n.d.	43,679,010	51,695,002	1.42	
610184	7	Deletion	61,686,000	65,203,000	no	yes	n.d.	n.d.	n.d.	61,624,710	65,156,098	1.51	
610184	7	Deletion	65,833,000	68,167,000	yes	yes	n.d.	n.d.	n.d.	65,792,447	68,169,815	1.52	
610184	7	Deletion	70,659,000	70,864,000	yes	yes	n.d.	n.d.	n.d.	70,653,109	70,865,110	1.44	
610184	7	Deletion	71,415,000	80,962,000	yes	yes	n.d.	n.d.	n.d.	71,422,615	80,973,471	1.46	
610184	7	Deletion	81,259,000	83,094,000	no	yes	n.d.	n.d.	n.d.	81,248,708	83,138,864	1.30	
610184	7	Deletion	86,979,000	88,776,000	no	yes	n.d.	n.d.	n.d.	86,951,000	88,796,000	1.34	
610184	7	Deletion	95,659,000	103,654,000	yes	yes	n.d.	n.d.	n.d.	95,651,508	102,898,956	1.47	
610184	7	Deletion	104,391,000	108,941,000	no	yes	n.d.	n.d.	n.d.	104,390,463	108,940,470	1.46	
610184	7	Deletion	109,044,000	111,119,000	no	yes	n.d.	n.d.	n.d.	109,045,767	111,120,215	1.34	
610184	7	Deletion	113,591,000	114,485,000	yes	yes	n.d.	n.d.	n.d.	113,578,737	114,465,630	1.30	
610184	7	Deletion	115,225,000	116,598,000	no	yes	n.d.	n.d.	n.d.	115,216,220	116,579,351	1.40	
610184	7	Deletion	117,880,000	124,294,000	no	yes	n.d.	n.d.	n.d.	117,820,872	124,275,397	1.28	
610184	7	Deletion	126,452,000	129,200,000	no	yes	n.d.	n.d.	n.d.	126,447,000	129,200,000	1.36	
610184	7	Deletion	128,660,000	141,693,000	yes	yes	n.d.	n.d.	n.d.	128,657,954	141,698,785	1.35	
610184	7	Deletion	141,720,000	158,620,000	yes	yes	n.d.	n.d.	n.d.	141,714,171	158,819,766	1.37	
610184	13	Deletion	39,956,000	51,695,000	yes	yes	39,055,970	51,698,672	1.30	39,055,970	51,696,672	1.29	
610184	13	Deletion	86,712,000	86,832,000	yes	yes	86,706,002	86,831,993	1.20	86,717,808	86,839,497	1.24	
610184	13	Deletion	n.d.	n.d.	yes	yes	86,884,391	87,163,707	1.23	n.d.	n.d.	n.d.	
610184	13	Deletion	87,535,447	87,584,965	n.e.	n.e.	87,545,820	87,660,000	1.19	87,545,058	87,679,800	1.11	
610184	17	Amplification	49,000	57,844,000	yes	yes	3,003,833	57,843,211	1.59	5,781,607	57,843,607	1.48	
610184	17	Amplification	n.d.	n.d.	yes	yes*	7,113,044	24,700,134	3.00	n.d.	n.d.	n.d.	
610184	17	Deletion	n.d.	n.d.	yes	yes*	8,348,978	9,834,787	1.36	n.d.	n.d.	n.d.	
610184	17	Deletion	n.d.	n.d.	yes	yes*	11,153,053	13,351,561	1.24	n.d.	n.d.	n.d.	
610184	17	Deletion	n.d.	n.d.	yes	yes	16,786,042	17,833,154	1.36	n.d.	n.d.	n.d.	
610184	17	Deletion	n.d.	n.d.	yes	yes	18,193,940	18,925,200	1.40	n.d.	n.d.	n.d.	
610184	18	Deletion	0	3,032,000	yes	yes	1,543	3,034,701	1.28	1,543	3,034,701	1.28	
610184	18	Deletion	4,480,000	15,306,000	yes	yes	4,481,056	15,373,054	1.28	4,481,056	15,392,085	1.29	
610184	18	Deletion	44,809,000	48,980,000	yes	yes	44,815,529	48,980,546	1.25	44,813,522	48,980,546	1.24	
182896	3	Amplification	37,000	31,277,000	failed	failed	n.d.	n.d.	n.d.	35,345	31,288,801	2.63	
182896	3	Amplification	6,015,000	199,306,000	failed	failed	n.d.	n.d.	n.d.	6,011,028	199,360,516	2.62	
182896	8	Amplification	127,000,000	142,000,000	failed	failed	n.d.	n.d.	n.d.	126,022	142,000,000	3.51	
182896	9	Amplification	141,000	139,633,000	failed	failed	n.d.	n.d.	n.d.	126,597	140,211,216	3.59	
182896	12	Amplification	86,000	148,000	failed	failed	n.d.	n.d.	n.d.	20,703	146,849,446	3.23	
182896	12	Amplification	1,943,000	2,074,000	failed	failed	n.d.	n.d.	n.d.	1,944,937	2,111,136	2.51	
182896	12	Amplification	2,129,000	78,141,000	failed	failed	n.d.	n.d.	n.d.	2,128,232	78,142,425	2.61	
182896	12	Deletion	78,143,000	79,455,000	failed	failed	n.d.	n.d.	n.d.	78,142,426	79,457,892	1.25	
182896	12	Amplification	79,457,000	87,816,000	failed	failed	n.d.	n.d.	n.d.	79,457,892	87,816,120	2.62	
182896	12	Deletion	121,690,000	123,900,000	failed	failed	n.d.	n.d.	n.d.	95,200,000	124,200,000	2.57	
182896	12	Deletion	122,066,000	123,900,000	failed	failed	n.d.	n.d.	n.d.	121,986,058	123,901,827	1.24	
182896	15	Deletion	39,830,000	40,985,000	failed	failed	39,832,061	40,986,323	1.37	39,829,330	40,976,707	1.14	
182896	17	Deletion	25,506,000	27,323,000	failed	failed	26,505,168	27,251,296	1.50	25,505,826	27,326,775	1.23	
182896	19	Amplification	363,000	63,145,000	failed	failed	n.d.	n.d.	n.d.	41,910	63,789,667	2.50	
182896	21	Amplification	13,370,000	33,930,000	failed	failed	n.d.	n.d.	n.d.	13,395,102	33,441,194	2.50	
182896	21	Deletion	33,932,000	36,930,000	failed	failed	n.d.	n.d.	n.d.	33,931,043	36,930,004	1.25	
182896	21	Amplification	36,795,000	46,877,000	failed	failed	n.d.	n.d.	n.d.	36,524,064	46,821,		

Supplementary Table 5. Capture/Deep sequencing results for A (retained) and B (deleted) alleles in regions of copy number alteration.

UPN	SEGMENT ID	CHROMOSOME	POSITION	A allele	B allele	A allele reads in skin	B allele reads in skin	A allele reads in MDS	B allele reads in MDS	A allele reads in sAML	B allele reads in sAML	A allele frequency in MDS	A allele frequency in sAML
461282	5.1	5	2355513	A	G	189	163	206	137	297	50	60.06%	85.59%
461282	5.1	5	2450617	G	A	65	72	59	48	120	17	55.14%	87.59%
461282	5.1	5	2669477	C	T	205	200	263	195	345	60	57.42%	85.19%
461282	5.1	5	2841601	T	C	180	95	252	245	285	59	50.70%	82.85%
461282	5.2	5	3628370	A	G	293	316	211	166	331	42	55.97%	88.74%
461282	5.2	5	3813907	C	T	333	293	512	360	596	85	58.72%	87.52%
461282	5.2	5	4116207	C	G	169	200	300	234	299	54	56.18%	84.70%
461282	5.2	5	4493130	T	C	293	322	282	220	386	59	56.18%	86.74%
461282	5.2	5	5248384	A	G	374	352	376	289	523	78	56.54%	87.02%
461282	5.2	5	5451226	A	G	157	177	217	146	273	37	59.78%	88.06%
461282	5.3	5	34117412	C	T	43	47	116	64	80	10	64.44%	88.89%
461282	5.3	5	34152437	G	A	214	213	190	160	240	36	54.29%	86.96%
461282	5.3	5	34190181	T	C	73	96	178	125	120	21	58.75%	85.11%
461282	5.3	5	34527706	G	A	138	160	136	122	217	34	52.71%	86.45%
461282	5.4	5	50717822	A	G	175	197	211	158	267	65	57.18%	80.42%
461282	5.4	5	51025904	G	A	302	247	403	296	441	70	57.65%	86.30%
461282	5.4	5	51377228	T	C	101	138	181	156	184	42	53.71%	81.42%
461282	5.5	5	59208668	C	A	158	157	184	132	155	14	58.23%	91.72%
461282	5.5	5	59680542	T	C	105	109	220	149	162	18	59.62%	90.00%
461282	5.5	5	60447589	G	A	153	171	299	224	260	30	57.17%	89.66%
461282	5.5	5	60879463	T	A	298	302	239	183	311	33	56.64%	90.41%
461282	5.5	5	62129790	A	G	155	168	303	254	283	50	54.40%	84.98%
461282	5.6	5	105507003	G	A	96	123	86	75	120	23	53.42%	83.92%
461282	5.6	5	106454392	A	G	156	203	402	317	390	57	55.91%	87.25%
461282	5.6	5	107184229	T	G	430	379	524	358	610	73	59.41%	89.31%
461282	5.6	5	108057622	T	A	313	277	313	214	346	47	59.39%	88.04%
461282	5.6	5	108787364	G	A	377	310	414	314	416	64	56.87%	86.67%
461282	5.6	5	109439283	A	T	195	228	287	177	268	37	61.85%	87.87%
461282	5.7	5	11228276	G	A	298	289	430	292	525	69	59.56%	88.38%
461282	5.7	5	112303420	C	T	150	168	228	185	271	31	55.21%	89.74%
461282	5.7	5	112425984	T	G	617	131	269	198	259	57	57.60%	81.96%
461282	5.7	5	112462425	A	G	766	151	288	242	379	50	54.34%	88.34%
461282	5.7	5	112473736	T	C	343	309	572	472	673	104	54.79%	86.62%
461282	5.7	5	112403897	T	A	265	279	439	381	513	86	53.54%	85.64%
461282	5.7	5	112434601	T	C	364	344	707	484	654	105	59.36%	86.17%
461282	5.8	5	113154968	A	G	226	209	227	183	303	29	55.37%	91.27%
461282	5.8	5	113537872	T	C	383	385	422	306	409	51	57.97%	88.91%
461282	5.8	5	114005795	A	T	89	59	104	79	87	8	56.83%	91.58%
461282	5.8	5	114465066	T	C	106	152	254	225	264	44	53.03%	85.71%
461282	5.8	5	114683892	A	G	238	253	298	240	307	51	55.39%	85.75%
461282	5.8	5	115243836	C	T	344	277	377	305	426	54	55.28%	88.75%
461282	5.8	5	116148933	T	A	326	390	500	381	570	81	56.75%	87.56%
461282	5.9	5	118198034	T	C	147	142	235	187	254	51	55.69%	83.28%
461282	5.9	5	118548270	C	G	116	142	289	222	246	41	56.56%	85.71%
461282	5.10	5	146168609	A	C	247	171	360	352	540	70	50.56%	88.52%
461282	5.10	5	147266247	A	G	348	323	539	551	737	142	49.45%	83.85%
461282	5.10	5	147555914	A	G	143	125	94	110	164	28	46.08%	85.42%
461282	5.10	5	148090221	A	G	317	288	320	316	507	63	50.31%	88.95%
461282	5.10	5	148592812	G	T	197	208	152	171	337	43	47.06%	88.68%
461282	5.10	5	148826619	A	G	199	189	163	149	383	45	52.24%	89.49%
461282	5.11	5	150828693	G	A	85	78	121	64	154	113	65.41%	57.68%
461282	5.11	5	151943465	G	T	149	140	240	181	231	224	57.01%	50.77%
461282	5.11	5	153190334	A	C	214	205	304	254	415	324	54.48%	56.16%
461282	5.11	5	155173098	G	T	348	389	347	247	352	348	58.42%	50.29%
461282	5.11	5	1564901989	C	T	80	96	154	127	132	157	54.80%	45.67%
461282	5.11	5	157029478	T	G	389	397	324	241	428	511	57.35%	45.58%
461282	5.12	17	4526387	A	G	425	337	521	118	636	45	81.53%	93.39%
461282	5.12	17	7299585	C	T	253	209	163	37	353	25	81.50%	93.39%
461282	5.12	17	7519114	A	G	496	485	569	118	751	59	82.82%	92.72%
461282	5.12	17	8503721	C	T	967	969	1344	1144	1527	216	54.02%	87.61%
461282	5.12	17	10016222	C	T	261	283	260	284	430	88	47.79%	83.01%
461282	5.12	17	19327558	C	T	169	210	155	179	234	34	46.41%	87.31%
461282	5.12	17	39337779	A	C	30	43	62	52	69	8	54.39%	89.61%
461282	5.12	17	49652689	T	C	173	171	281	299	301	65	48.45%	82.24%
461282	5.12	17	59462555	T	C	139	139	142	200	183	28	41.52%	86.73%
461282	5.12	17	6790393	G	A	127	93	198	186	356	51	51.56%	87.47%
461282	5.13	17	73073862	T	G	85	84	172	40	320	27	81.13%	92.22%
461282	5.13	17	74205146	G	C	398	366	493	75	496	40	86.80%	92.54%
461282	5.13	17	76919792	A	T	11	14	21	5	58	5	80.77%	92.06%
461282	20.1	20	32020833	C	T	227	211	304	67	426	28	81.94%	93.83%
461282	20.1	20	36122307	A	G	441	374	746	198	697	62	79.03%	91.83%
461282	20.1	20	385656196	G	T	294	271	421	84	429	25	83.37%	94.49%
461282	20.1	20	40153367	C	T	329	340	399	90	612	42	81.60%	93.58%
461282	20.1	20	42007776	C	T	322	266	579	126	753	51	82.13%	93.66%
461282	20.1	20	44818375	G	T	178	208	231	41	289	24	84.93%	92.33%
610184	1.03	1	16.731307	T	G	212	43	33	6	91	29	84.62%	75.83%
610184	1.03	1	16.733239	A	C	677	104	102	14	179	45	87.93%	79.91%
610184	1.03	1	16.733392	C	T	557	155	68	23	182	116	68.00%	61.07%
610184	1.03	1	16.734464	T	C	109	48	22	12	50	17	64.71%	74.63%
610184	1.03	1	16.734474	G	C	101	43	18	10	39	18	64.29%	68.42%
610184	1.03	1	16.735041	G	T	161	240	52	39	120	74	57.14%	61.86%
610184	1.03	1	16.735048	A	T	163	247	49	38	115	70	56.23%	62.16%
610184	1.03	1	16.735089	G	A	143	228	35	30	99	85	53.85%	53.80%
610184	1.03	1	16.756200	A	G	705	0	131	0	193	0	100.00%	100.00%
610184	1.03	1	16.820276	T	G	908	418	129	30	447	146	81.13%	75.38%
610184	1.03	1	16.821309	C	T	516	248	70	46	208	130	60.24%	70.32%
610184	1.03	1	16.822232	A	G	783	963	162	76	747	407	68.07%	64.73%
610184	1.03	1	16.822504	T	C	996	578	138	71	696	373	66.03%	65.11%
610184	1.03	1	16.823245	C	G	870	584	136	59	663	353	69.74%	65.26%
610184	1.03	1	16.825708	C	T	351	321	65	40	286	138	61.90%	67.45%
610184	1.03	1	16.832138	T	C	163	154	33	22	243	168	60.00%	59.12%

610184	1.03	1	16,833,455	A	C	109	123	36	23	217	102	61.02%	68.03%
610184	1.03	1	16,833,462	A	T	94	120	31	20	195	105	60.78%	65.00%
610184	1.03	1	16,837,384	G	T	277	145	35	33	194	105	51.47%	64.88%
610184	1.03	1	16,838,398	C	G	185	162	41	30	270	127	57.75%	68.01%
610184	1.03	1	16,841,833	G	C	176	48	28	4	152	32	87.50%	82.61%
610184	1.03	1	16,954,923	C	T	128	35	30	7	135	27	81.08%	83.33%
610184	1.03	1	16,954,990	A	C	72	52	18	6	81	40	75.00%	66.94%
610184	1.03	1	16,955,013	G	T	66	67	14	8	72	52	63.64%	58.06%
610184	1.03	1	16,955,062	C	T	44	63	12	9	48	41	57.14%	53.93%
610184	1.03	1	16,956,155	G	A	119	98	48	7	145	32	87.27%	81.92%
610184	1.03	1	16,956,227	G	C	144	47	47	4	112	33	92.16%	77.24%
610184	1.03	1	16,956,272	A	C	120	43	45	4	88	32	91.84%	73.33%
610184	1.03	1	16,969,549	T	C	315	392	33	37	166	141	47.14%	53.77%
610184	1.03	1	16,981,519	G	A	182	84	146	52	129	40	73.74%	76.33%
610184	1.03	1	16,994,262	T	C	28	109	17	15	17	12	53.13%	58.62%
610184	1.03	1	17,067,978	G	C	156	85	28	18	63	23	60.87%	73.26%
610184	1.03	1	17,072,945	C	G	970	215	111	25	263	147	81.62%	64.15%
610184	1.03	1	17,073,052	T	A	784	249	79	48	242	145	62.20%	62.62%
610184	1.03	1	17,073,090	G	T	796	345	71	63	238	201	53.28%	54.21%
610184	1.03	1	17,073,165	G	C	283	108	35	15	81	50	70.00%	61.82%
610184	1.03	1	17,073,180	A	G	180	63	23	7	61	29	76.67%	67.78%
610184	1.03	1	17,074,499	A	T	401	25	32	5	125	11	86.49%	91.91%
610184	1.03	1	17,096,990	G	C	299	35	32	8	127	15	80.00%	89.44%
610184	1.03	1	17,098,834	A	G	352	52	27	15	118	46	64.23%	71.95%
610184	1.03	1	17,105,864	C	T	405	239	43	8	258	35	84.31%	88.05%
610184	1.03	1	17,107,142	G	A	262	26	23	13	168	20	63.89%	89.36%
610184	1.03	1	17,107,173	A	G	274	55	30	15	204	35	66.67%	85.36%
610184	1.03	1	17,148,482	A	T	114	142	24	3	325	30	88.89%	91.55%
610184	1.03	1	17,204,475	A	G	165	225	76	9	281	29	89.41%	90.65%
610184	1.03	1	17,335,268	A	C	543	457	111	13	382	37	89.52%	91.17%
610184	1.03	1	17,389,110	A	G	339	270	168	19	247	29	89.84%	89.49%
610184	1.03	1	17,499,970	T	A	369	152	229	13	132	10	94.63%	92.96%
610184	1.03	1	17,500,209	G	A	325	292	292	32	190	12	90.12%	94.05%
610184	1.03	1	17,514,860	C	T	470	487	213	33	214	25	86.55%	89.54%
610184	1.03	1	17,745,231	C	A	413	437	69	5	315	39	93.24%	88.08%
610184	1.03	1	17,942,003	G	A	166	155	98	16	219	24	85.96%	90.12%
610184	1.03	1	18,022,917	C	T	336	279	147	14	287	22	91.30%	92.88%
610184	1.03	1	18,180,642	G	A	214	225	196	19	316	27	91.16%	92.13%
610184	1.03	1	18,245,596	T	C	277	255	146	8	300	26	94.81%	92.02%
610184	1.03	1	18,265,767	A	T	486	429	131	19	224	27	87.33%	89.24%
610184	1.03	1	18,322,111	G	A	250	236	102	10	244	21	91.07%	92.08%
610184	1.03	1	18,485,595	C	T	422	412	145	16	354	29	90.06%	92.43%
610184	1.03	1	18,506,270	G	A	505	530	210	25	244	22	89.36%	91.73%
610184	1.05	1	23,528,266	C	T	462	444	230	23	165	15	89.49%	91.67%
610184	1.05	1	23,540,528	G	A	258	258	82	10	291	32	89.13%	90.09%
610184	1.05	1	23,540,538	A	C	243	238	81	10	276	34	89.01%	89.03%
610184	1.05	1	23,576,429	G	A	261	265	168	14	225	15	92.31%	93.75%
610184	1.05	1	23,621,371	T	C	387	441	102	8	436	37	92.73%	92.88%
610184	1.05	1	23,622,444	C	G	316	285	66	6	322	35	92.97%	90.20%
610184	1.05	1	23,622,480	A	T	311	318	61	5	294	32	92.42%	88.18%
610184	1.05	1	23,625,485	G	C	194	147	45	6	317	18	88.24%	94.63%
610184	1.05	1	23,625,549	T	A	213	156	51	2	274	24	96.23%	91.95%
610184	1.05	1	23,638,820	C	T	144	139	48	7	295	29	87.27%	91.05%
610184	1.05	1	23,658,790	C	T	646	509	222	23	374	27	90.61%	93.27%
610184	1.05	1	23,839,746	G	A	665	554	534	47	233	18	91.91%	92.83%
610184	1.05	1	23,915,398	A	G	256	245	235	23	277	30	91.09%	90.23%
610184	1.05	1	23,923,711	G	A	415	312	336	24	368	31	93.33%	92.23%
610184	1.05	1	23,941,131	C	T	258	206	143	14	483	38	91.08%	92.71%
610184	1.05	1	24,028,511	A	G	125	126	21	3	67	6	87.50%	91.78%
610184	1.05	1	24,030,985	G	T	499	444	63	5	354	34	92.65%	91.24%
610184	1.05	1	24,040,606	C	T	374	289	114	15	404	52	88.37%	88.60%
610184	1.05	1	24,044,130	C	G	344	276	72	10	224	17	87.80%	92.95%
610184	1.05	1	24,053,549	T	C	477	440	80	2	332	31	97.56%	91.46%
610184	1.05	1	24,068,785	G	A	150	20	20	3	91	8	86.96%	91.92%
610184	1.05	1	24,072,229	A	G	127	115	30	4	157	23	88.24%	87.22%
610184	1.05	1	24,072,639	G	A	152	129	55	7	209	30	88.71%	87.45%
610184	1.05	1	24,072,745	C	T	127	112	50	9	203	21	84.75%	90.63%
610184	1.05	1	24,076,003	T	G	161	178	70	12	147	23	85.37%	86.47%
610184	1.05	1	24,076,012	T	C	164	184	73	10	159	22	87.95%	87.85%
610184	1.05	1	24,077,994	A	G	190	216	75	12	159	19	86.21%	89.33%
610184	1.05	1	24,287,713	T	C	368	328	69	7	331	38	90.79%	89.70%
610184	1.05	1	24,381,661	T	A	407	436	151	20	235	25	88.30%	90.38%
610184	1.05	1	24,435,281	A	G	113	99	104	12	154	10	89.66%	93.90%
610184	1.05	1	24,438,083	A	G	227	125	156	17	143	12	90.17%	92.26%
610184	1.05	1	24,579,048	A	G	523	467	265	41	394	37	86.60%	91.42%
610184	1.05	1	24,652,442	T	C	392	374	282	28	304	19	90.97%	94.12%
610184	1.05	1	24,657,524	C	T	289	187	261	23	203	13	91.90%	93.98%
610184	1.05	1	24,716,693	C	T	377	327	172	15	198	11	91.98%	94.74%
610184	1.05	1	24,724,487	G	A	304	312	195	37	390	28	84.05%	93.30%
610184	1.05	1	24,729,673	A	G	341	348	222	29	283	26	88.45%	91.59%
610184	1.05	1	24,790,130	A	G	293	307	140	17	394	38	89.17%	91.20%
610184	1.05	1	24,808,031	G	C	352	368	332	28	394	29	92.22%	93.14%
610184	1.05	1	24,936,307	T	C	169	162	53	3	172	20	94.64%	89.58%
610184	1.07	1	26,395,474	C	T	263	31	27	2	100	6	93.10%	94.34%
610184	1.07	1	26,407,733	G	A	807	771	191	26	321	21	88.02%	93.86%
610184	1.07	1	26,408,728	G	A	392	380	103	11	187	26	90.35%	87.79%
610184	1.07	1	26,416,008	G	C	91	67	49	2	134	8	96.08%	94.37%
610184	1.07	1	26,422,576	A	G	351	373	88	10	367	36	89.80%	91.07%
610184	1.07	1	26,422,775	T	C	264	303	55	9	297	34	85.94%	89.73%
610184	1.07	1	26,462,223	G	A	591	744	278	34	417	49	89.10%	89.48%
610184	1.07	1	26,462,285	A	T	528	646	253	29	327	35	89.72%	90.33%
610184	1.07	1	26,463,019	A	G	390	384	209	14	213	18	93.72%	92.21%
610184	1.07	1	26,463,188	A	G	292	295	159	8	174	18	95.21%	90.63%
610184	1.07	1	26,523,719	C	G	441	450	106	16	460	45	86.89%	91.09%
610184	1.07	1	26,603,407	A	G	400	364	134	9	303	35	93.71%	89.64%

610184	1.07	1	26,672,528	A	G	88	103	58	10	153	15	85.29%	91.07%
610184	1.07	1	26,673,077	T	C	108	124	56	10	243	22	84.85%	91.70%
610184	1.07	1	26,675,052	A	G	214	255	75	7	223	17	91.46%	92.92%
610184	1.07	1	26,846,926	C	A	293	240	122	8	231	19	93.85%	92.40%
610184	1.07	1	26,893,702	T	G	166	191	103	5	279	25	95.37%	91.78%
610184	1.07	1	26,913,096	C	T	267	261	141	16	362	28	89.81%	92.82%
610184	1.07	1	26,923,165	T	A	56	82	107	12	43	2	89.92%	95.56%
610184	1.07	1	26,923,810	G	A	334	357	237	28	274	20	89.43%	93.20%
610184	1.07	1	27,156,744	G	C	434	460	109	6	301	24	94.78%	92.62%
610184	1.07	1	27,334,525	A	C	220	209	92	11	106	9	89.32%	92.17%
610184	1.07	1	27,572,789	A	T	176	138	25	1	232	16	96.15%	93.55%
610184	1.07	1	27,613,012	G	T	651	591	258	25	288	29	91.17%	90.85%
610184	1.07	1	27,613,718	C	T	702	631	357	34	305	26	91.30%	92.15%
610184	1.07	1	27,617,100	T	C	272	185	181	9	317	21	95.26%	93.79%
610184	1.07	1	27,622,990	C	T	179	265	175	14	194	20	92.59%	90.65%
610184	1.07	1	27,626,663	C	T	470	452	408	30	360	28	93.15%	92.78%
610184	1.07	1	27,632,232	C	T	151	129	215	21	202	12	91.10%	94.39%
610184	1.07	1	27,636,833	A	G	205	260	230	29	192	16	88.80%	92.34%
610184	1.07	1	27,658,972	A	C	373	368	212	21	182	20	90.89%	90.15%
610184	1.07	1	27,659,279	A	C	257	342	245	21	188	20	92.11%	90.38%
610184	1.07	1	27,659,510	T	C	277	374	226	22	154	14	91.13%	91.67%
610184	1.07	1	27,664,458	C	T	349	337	242	24	328	23	90.89%	94.45%
610184	1.07	1	27,704,906	A	G	329	298	97	6	168	21	94.17%	88.89%
610184	1.07	1	27,863,525	A	G	470	421	172	19	211	25	90.05%	89.41%
610184	1.07	1	28,086,570	C	G	259	249	127	10	350	38	92.70%	90.21%
610184	1.07	1	28,103,741	A	G	99	115	34	8	98	15	80.85%	86.72%
610184	1.07	1	28,123,653	G	A	127	174	55	3	144	13	94.83%	91.72%
610184	1.07	1	28,149,234	T	G	301	256	100	7	357	26	93.46%	93.21%
610184	1.07	1	28,220,037	A	C	523	422	615	60	282	29	91.11%	90.68%
610184	1.07	1	28,252,766	C	G	525	587	706	75	321	36	90.40%	89.92%
610184	1.07	1	28,363,183	C	T	387	385	294	34	197	18	89.63%	91.63%
610184	1.07	1	28,305,998	G	C	221	188	93	9	226	22	91.18%	91.13%
610184	1.07	1	29,156,846	A	G	141	148	126	19	121	7	86.80%	94.53%
610184	1.07	1	29,191,360	C	A	175	130	168	7	155	13	96.90%	92.26%
610184	1.07	1	29,285,318	A	G	163	188	131	19	160	12	87.33%	93.02%
610184	1.07	1	29,429,000	C	A	298	338	117	6	396	24	95.12%	94.29%
610184	2.01	2	95,822	G	C	106	159	55	12	82	8	82.09%	91.11%
610184	2.01	2	121,213	T	C	144	173	81	19	182	20	81.00%	90.10%
610184	2.01	2	128,574	T	A	183	193	181	28	135	19	86.60%	87.66%
610184	2.01	2	163,602	T	C	232	265	290	42	300	44	87.35%	87.21%
610184	2.01	2	174,561	A	G	211	191	115	18	151	23	86.47%	86.78%
610184	2.01	2	214,919	G	A	198	241	57	13	220	32	81.43%	87.30%
610184	2.01	2	358,739	T	C	27	167	203	34	130	15	85.86%	90.26%
610184	2.01	2	895,492	T	A	12	25	28	1	24	2	96.55%	91.30%
610184	2.01	2	898,687	C	T	260	235	208	32	172	26	86.67%	86.87%
610184	2.01	2	1,439,011	T	G	74	72	86	18	273	34	82.69%	88.93%
610184	2.01	2	1,578,950	C	T	165	220	49	14	219	17	77.78%	92.80%
610184	2.01	2	1,579,023	G	A	200	279	71	21	263	33	77.17%	88.85%
610184	2.01	2	1,591,412	C	T	65	435	102	19	256	29	84.30%	89.82%
610184	2.01	2	1,624,894	G	A	80	86	45	9	195	18	83.33%	91.55%
610184	2.01	2	1,672,042	T	G	316	348	125	20	322	44	86.21%	87.89%
610184	2.01	2	1,752,190	T	C	93	117	40	8	260	34	83.33%	88.44%
610184	2.01	2	1,752,200	A	G	107	123	45	9	264	36	83.33%	88.00%
610184	2.01	2	1,905,000	C	T	376	344	189	33	402	50	85.14%	88.94%
610184	2.01	2	2,149,638	G	T	296	329	280	65	227	40	81.16%	85.02%
610184	2.01	2	2,397,173	T	G	294	278	209	37	191	20	84.96%	90.52%
610184	2.01	2	2,465,199	T	G	158	154	149	28	173	26	84.18%	86.93%
610184	2.01	2	2,585,685	G	A	432	406	495	84	328	46	85.49%	87.70%
610184	2.01	2	2,589,17	C	A	187	136	154	30	216	16	83.70%	93.10%
610184	2.01	2	2,880,141	A	G	175	154	25	212	24	86.03%	89.83%	
610184	2.01	2	2,936,211	A	G	257	232	277	53	268	30	83.94%	89.93%
610184	2.01	2	2,949,157	A	G	469	482	434	82	282	18	84.11%	94.00%
610184	2.01	2	3,072,959	G	T	149	124	113	19	126	6	85.61%	95.45%
610184	2.01	2	3,086,985	C	T	396	356	169	33	281	20	83.66%	93.36%
610184	2.01	2	3,160,791	T	C	69	54	59	9	292	38	86.76%	88.48%
610184	2.01	2	3,212,423	T	C	277	227	161	23	177	26	87.50%	87.19%
610184	2.01	2	3,220,429	G	A	555	563	221	25	343	40	89.84%	89.56%
610184	2.01	2	3,225,981	A	G	331	296	140	15	364	45	90.32%	89.00%
610184	2.01	2	3,827,826	C	G	362	370	421	84	374	31	83.37%	92.35%
610184	2.01	2	3,956,081	G	A	147	82	150	19	269	23	88.76%	92.12%
610184	2.01	2	4,117,984	G	A	487	382	530	96	291	38	84.66%	88.45%
610184	2.01	2	4,455,548	A	G	92	103	151	21	130	18	87.79%	87.84%
610184	2.01	2	4,817,075	C	T	244	255	219	33	223	33	86.90%	87.11%
610184	2.01	2	4,837,914	A	C	197	217	273	63	178	31	81.25%	85.17%
610184	2.01	2	5,204,233	T	C	232	274	344	72	162	18	82.69%	90.00%
610184	2.01	2	5,234,675	G	A	234	263	331	53	291	30	85.20%	90.65%
610184	2.01	2	5,497,885	T	C	413	438	262	54	313	54	82.91%	85.29%
610184	2.01	2	5,525,397	G	A	275	290	216	39	325	35	84.71%	90.28%
610184	2.01	2	5,682,849	A	G	1029	167	524	64	264	113	89.12%	70.03%
610184	2.01	2	5,700,594	A	G	286	238	287	61	182	23	82.47%	88.78%
610184	2.01	2	5,714,074	T	C	108	133	121	18	135	17	87.05%	88.82%
610184	2.01	2	5,714,515	T	C	148	194	126	18	98	11	87.50%	89.91%
610184	2.01	2	5,714,600	A	G	165	207	130	19	107	8	87.25%	93.04%
610184	2.01	2	5,717,799	T	C	33	28	21	1	37	4	95.45%	90.24%
610184	2.01	2	5,718,324	A	C	107	89	46	12	70	6	79.31%	92.11%
610184	2.01	2	5,725,415	A	G	87	51	18	4	56	2	81.82%	96.55%
610184	2.01	2	5,728,108	A	G	560	645	139	32	170	27	81.92%	86.29%
610184	2.01	2	5,728,341	A	G	375	456	113	18	157	22	86.26%	87.71%
610184	2.01	2	5,728,643	G	C	569	675	144	17	286	34	89.44%	89.38%
610184	2.01	2	5,936,613	A	G	296	297	173	38	278	41	81.99%	87.15%
610184	2.01	2	6,674,021	G	C	40	50	73	14	28	2	83.91%	93.33%
610184	2.01	2	6,797,369	G	C	372	326	332	56	224	23	85.57%	90.69%
610184	2.01	2	7,199,121	C	T	140	38	49	12	42	11	80.33%	79.25%
610184	2.01	2	7,453,219	G	A	382	286	388	57	233	32	87.19%	87.92%
610184	2.01	2	7,668,000	A	G	611	489	812	127	268	25	86.47%	91.47%

610184	2.01	2	8,178,365	T	C	303	279	378	45	320	34	89.36%	90.40%
610184	2.01	2	8,574,190	T	C	530	661	182	56	311	43	76.47%	87.85%
610184	2.01	2	9,732,853	A	G	326	410	199	51	268	26	79.60%	91.16%
610184	2.01	2	9,968,398	T	C	558	454	492	62	303	19	88.81%	94.10%
610184	2.01	2	9,968,411	A	G	542	459	483	60	283	20	88.95%	93.40%
610184	2.01	2	9,974,309	G	A	204	206	353	39	145	15	90.05%	90.63%
610184	2.01	2	10,110,520	T	A	151	131	35	3	151	24	92.11%	86.29%
610184	2.01	2	10,114,721	A	T	137	122	65	6	255	29	91.55%	89.79%
610184	2.01	2	10,133,426	T	C	520	448	71	7	341	38	91.03%	89.97%
610184	2.01	2	10,147,810	G	A	96	127	22	6	169	24	78.57%	87.56%
610184	2.01	2	10,162,352	A	G	415	424	73	15	138	12	82.95%	92.00%
610184	2.01	2	10,238,980	A	G	206	192	47	5	272	34	90.38%	88.89%
610184	2.01	2	10,294,465	C	G	266	260	113	17	325	22	86.92%	93.66%
610184	2.01	2	10,326,483	T	C	113	104	49	4	172	24	92.45%	87.76%
610184	2.01	2	10,358,438	C	T	146	168	83	9	353	30	90.22%	92.17%
610184	2.01	2	10,373,076	G	A	193	175	58	8	161	17	87.88%	90.45%
610184	2.01	2	10,408,551	C	T	292	302	56	10	224	28	84.85%	88.89%
610184	2.01	2	10,419,132	T	G	278	278	66	8	366	36	89.19%	91.04%
610184	2.01	2	10,419,205	C	T	238	223	52	7	294	26	88.14%	91.88%
610184	2.01	2	10,437,398	A	G	274	351	71	12	391	35	85.54%	91.78%
610184	2.01	2	10,441,962	C	A	61	87	21	0	149	20	100.00%	88.17%
610184	2.01	2	10,619,137	T	C	421	337	191	35	308	41	84.51%	88.25%
610184	2.01	2	10,701,918	G	C	284	312	470	76	218	33	86.08%	86.85%
610184	2.01	2	10,701,942	A	G	347	262	416	69	202	27	85.77%	88.21%
610184	2.01	2	10,932,023	A	G	104	93	85	17	224	36	83.33%	86.15%
610184	2.01	2	11,379,209	T	C	408	492	144	39	232	20	78.69%	92.06%
610184	2.01	2	11,700,236	G	A	122	150	96	9	108	15	91.43%	87.80%
610184	2.01	2	12,369,615	A	G	345	300	282	44	272	31	86.50%	89.77%
610184	2.01	2	12,723,379	C	G	366	371	306	50	319	26	85.96%	92.46%
610184	2.01	2	12,781,221	A	G	274	276	96	22	305	29	81.36%	91.32%
610184	2.01	2	12,802,953	C	G	349	346	266	49	262	35	84.44%	88.22%
610184	2.01	2	12,832,941	T	C	361	354	181	33	336	45	84.58%	88.19%
610184	2.01	2	12,909,203	T	C	364	384	207	41	232	21	83.47%	91.70%
610184	2.01	2	13,064,096	C	T	411	408	265	68	317	40	79.58%	88.80%
610184	2.01	2	13,240,860	G	A	317	249	413	78	313	42	84.11%	88.17%
610184	2.01	2	13,275,871	T	C	342	271	312	62	316	41	83.42%	88.52%
610184	2.02	2	13,869,511	C	T	544	437	473	85	301	28	84.77%	91.49%
610184	2.02	2	13,881,491	G	A	309	222	203	44	260	23	82.19%	91.87%
610184	2.02	2	13,894,697	T	C	196	232	240	46	201	26	83.92%	88.55%
610184	2.02	2	13,906,215	A	G	203	188	209	47	287	32	84.96%	89.37%
610184	2.02	2	13,915,732	T	C	194	221	301	49	244	32	86.00%	88.41%
610184	2.02	2	13,916,034	C	T	188	3	216	6	115	16	97.30%	87.79%
610184	2.02	2	13,918,833	G	A	188	169	321	54	213	25	85.88%	89.50%
610184	2.02	2	13,928,518	C	G	248	268	289	36	291	32	88.92%	90.09%
610184	2.02	2	13,930,825	T	A	188	209	257	54	128	17	82.40%	88.28%
610184	2.02	2	13,958,283	C	T	301	231	355	35	293	23	91.03%	92.72%
610184	2.02	2	13,964,040	G	C	367	325	376	61	171	23	86.04%	88.14%
610184	2.02	2	13,965,532	T	C	458	446	348	69	265	31	83.45%	89.53%
610184	2.02	2	13,977,037	G	A	174	144	248	29	244	24	89.33%	91.04%
610184	2.02	2	13,999,469	A	C	194	264	397	73	307	37	84.47%	89.24%
610184	2.05	2	27,996,521	T	G	204	205	419	68	241	32	86.04%	88.28%
610184	2.05	2	28,163,081	G	A	369	373	475	96	289	32	83.19%	90.03%
610184	2.05	2	28,217,787	T	C	234	334	244	53	188	38	82.15%	83.19%
610184	2.05	2	28,271,535	C	T	268	247	427	67	228	23	86.44%	90.84%
610184	2.05	2	28,711,976	C	T	606	594	213	45	355	35	82.56%	91.03%
610184	2.05	2	28,895,381	C	T	234	231	274	52	327	35	84.05%	90.33%
610184	2.05	2	28,988,972	G	C	393	438	360	53	298	49	87.17%	85.88%
610184	2.05	2	29,311,790	C	A	521	785	270	42	323	38	86.54%	89.47%
610184	2.05	2	29,398,558	C	I	225	219	210	36	288	43	85.37%	87.01%
610184	2.05	2	29,558,219	A	G	234	291	359	69	295	34	83.88%	89.67%
610184	2.05	2	29,879,352	C	T	181	81	131	12	207	26	91.61%	88.84%
610184	2.05	2	30,184,321	G	A	362	330	262	54	267	28	82.91%	90.51%
610184	2.05	2	30,357,869	C	T	209	277	266	40	375	43	86.93%	89.71%
610184	2.05	2	30,741,850	A	C	594	597	535	64	352	43	89.32%	89.11%
610184	2.09	2	54,308,561	T	C	495	468	515	93	411	53	84.70%	88.58%
610184	2.09	2	54,333,873	A	C	388	434	232	37	298	30	86.25%	90.85%
610184	2.09	2	54,360,718	A	G	437	425	470	77	445	57	85.92%	88.65%
610184	2.09	2	54,385,935	C	T	247	216	210	24	230	19	89.74%	92.37%
610184	2.09	2	54,402,507	C	T	344	365	251	28	204	23	89.96%	89.87%
610184	2.09	2	54,415,516	C	A	336	289	249	34	270	21	87.99%	92.78%
610184	2.09	2	54,479,744	C	T	358	331	422	69	303	38	85.95%	88.86%
610184	2.09	2	54,644,102	G	A	259	253	164	22	228	26	88.17%	89.76%
610184	2.09	2	54,659,551	G	A	506	512	341	57	290	25	85.88%	92.06%
610184	2.09	2	54,659,553	G	A	495	512	335	55	292	24	85.90%	92.41%
610184	2.09	2	54,664,266	A	G	419	365	364	53	328	30	87.29%	91.62%
610184	2.09	2	54,670,957	A	T	580	584	405	75	403	51	84.38%	88.77%
610184	2.09	2	54,722,785	C	G	151	170	131	38	240	24	77.51%	90.91%
610184	2.09	2	54,742,653	T	C	455	503	321	39	284	38	89.17%	88.20%
610184	2.09	2	54,861,439	G	T	1347	29	646	22	321	68	96.71%	82.52%
610184	2.10	2	55,195,456	G	T	419	473	278	53	316	43	83.99%	88.02%
610184	2.10	2	55,219,036	G	A	585	524	301	50	294	27	85.75%	91.59%
610184	2.10	2	55,236,931	T	A	489	432	469	70	293	41	87.01%	87.72%
610184	2.10	2	55,249,481	T	C	399	423	372	60	404	43	86.11%	90.38%
610184	2.10	2	55,258,298	A	G	369	395	363	61	338	43	85.61%	88.71%
610184	2.10	2	55,264,339	C	T	754	666	396	54	254	29	88.00%	89.75%
610184	2.10	2	55,323,323	T	A	490	546	300	44	329	34	87.21%	90.63%
610184	2.10	2	55,331,942	T	C	331	342	313	45	271	36	87.43%	88.27%
610184	2.10	2	55,332,674	G	C	236	229	201	26	132	17	88.55%	88.59%
610184	2.10	2	55,350,334	C	A	353	261	117	13	240	21	90.00%	91.95%
610184	2.10	2	55,364,131	A	C	251	335	124	22	442	37	84.93%	92.28%
610184	2.10	2	55,369,827	G	T	262	286	160	29	406	46	84.66%	89.82%
610184	2.10	2	55,378,721	A	T	143	178	199	35	248	29	85.04%	89.53%
610184	2.10	2	55,382,359	T	A	102	84	142	15	123	17	90.45%	87.86%
610184	2.10	2	55,400,205	C	T	152	164	261	35	251	23	88.18%	91.61%
610184	2.11	2	57,719,427	C	A	268	236	416	82	221	27	83.53%	89.11%

610184	2.11	2	57,722,375	C	T	365	316	698	117	342	29	85.64%	92.18%
610184	2.11	2	57,723,769	C	G	207	189	431	78	168	16	84.68%	91.30%
610184	2.11	2	57,724,520	G	C	308	311	567	101	278	37	84.88%	88.25%
610184	2.11	2	57,738,769	T	A	294	264	452	68	212	28	86.92%	88.33%
610184	2.11	2	57,752,887	G	C	171	174	291	61	237	30	82.67%	88.76%
610184	2.11	2	57,759,410	C	T	213	158	208	37	264	34	84.90%	88.59%
610184	2.11	2	57,789,320	A	G	238	241	298	49	205	32	85.88%	86.50%
610184	2.11	2	57,791,248	T	C	306	291	368	72	241	26	83.64%	90.26%
610184	2.11	2	57,796,491	C	T	385	420	477	73	311	51	86.73%	85.91%
610184	2.11	2	57,827,322	T	C	275	229	312	56	131	16	84.78%	89.12%
610184	2.11	2	57,834,459	T	A	190	177	201	48	147	22	80.72%	86.98%
610184	2.11	2	57,836,148	A	G	380	321	341	51	175	23	86.99%	88.38%
610184	2.11	2	57,880,841	T	C	345	380	483	91	335	48	84.15%	87.47%
610184	2.11	2	57,884,466	A	G	251	237	347	55	319	34	86.32%	90.37%
610184	2.12	2	70,896,969	C	T	381	318	171	33	349	34	83.82%	91.12%
610184	2.12	2	71,027,517	C	T	254	276	71	12	264	27	85.54%	90.72%
610184	2.12	2	71,036,408	T	C	238	292	81	24	232	18	77.14%	92.80%
610184	2.12	2	71,213,652	A	C	118	128	54	7	152	21	88.52%	87.86%
610184	2.12	2	71,213,790	A	G	114	124	59	12	152	19	82.10%	88.05%
610184	2.12	2	71,226,928	C	G	324	274	164	37	202	22	81.59%	90.22%
610184	2.12	2	71,395,168	G	A	152	148	171	20	140	11	89.53%	92.72%
610184	2.12	2	71,463,121	A	G	382	379	517	103	254	25	83.99%	91.04%
610184	2.12	2	71,507,958	G	A	333	284	319	49	323	23	86.68%	93.35%
610184	2.12	2	71,511,872	T	C	220	231	235	46	166	25	83.63%	86.91%
610184	2.12	2	71,705,306	T	A	133	128	128	18	197	22	87.67%	89.95%
610184	2.12	2	71,802,552	A	G	298	337	72	13	295	30	84.71%	90.77%
610184	2.12	2	71,982,948	G	A	257	261	142	24	245	41	85.54%	89.38%
610184	2.12	2	72,289,885	G	A	83	6	50	6	24	3	89.39%	88.89%
610184	2.12	2	72,422,426	T	C	324	310	346	71	129	21	82.97%	86.00%
610184	2.12	2	72,547,627	T	C	210	23	343	42	83	37	89.09%	69.17%
610184	2.12	2	72,592,981	G	C	381	0	204	0	169	0	100.00%	100.00%
610184	2.12	2	72,593,014	A	T	170	1	131	0	74	0	100.00%	100.00%
610184	2.12	2	73,377,505	T	G	891	352	148	82	327	58	64.35%	84.94%
610184	2.12	2	73,579,382	C	G	218	218	294	51	141	25	85.22%	84.84%
610184	2.12	2	73,730,635	T	A	306	83	308	24	168	30	92.77%	84.85%
610184	2.12	2	73,973,016	A	C	347	302	343	53	281	37	86.62%	88.36%
610184	2.12	2	73,996,720	G	A	354	292	291	43	205	24	87.13%	89.52%
610184	2.12	2	74,011,936	G	T	219	180	198	19	161	13	91.24%	92.53%
610184	2.12	2	74,028,641	T	G	196	225	332	73	239	26	81.98%	90.19%
610184	2.12	2	74,035,606	T	C	358	379	497	87	276	38	85.10%	87.90%
610184	2.12	2	74,055,930	T	C	318	273	121	14	262	28	89.63%	90.34%
610184	2.12	2	74,055,981	C	T	260	230	113	14	232	19	88.88%	92.43%
610184	2.12	2	74,134,576	G	A	235	242	150	31	261	23	82.89%	91.39%
610184	2.12	2	74,148,556	G	A	377	353	162	25	299	30	86.53%	90.89%
610184	2.12	2	74,166,588	T	C	331	293	198	27	357	27	88.00%	92.97%
610184	2.12	2	74,168,269	G	T	206	205	132	22	266	24	85.71%	91.72%
610184	2.12	2	74,295,861	C	G	63	73	65	8	97	9	89.04%	91.51%
610184	2.12	2	74,611,686	T	A	774	4	70	1	153	3	88.59%	88.03%
610184	2.12	2	74,641,903	A	G	1757	0	162	0	188	0	100.00%	100.00%
610184	2.12	2	74,641,906	A	G	1880	2	165	0	208	0	100.00%	100.00%
610184	2.12	2	74,659,389	G	A	553	597	507	73	351	44	87.41%	88.86%
610184	2.12	2	74,706,893	G	T	102	137	167	58	76	18	74.22%	80.85%
610184	2.12	2	74,750,433	A	T	264	264	196	26	193	31	88.22%	86.16%
610184	2.12	2	74,839,327	G	A	88	117	83	18	80	10	82.18%	88.89%
610184	2.12	2	74,840,766	A	C	315	366	290	194	303	262	59.92%	53.63%
610184	2.12	2	74,841,929	G	A	339	335	235	274	334	296	46.17%	53.02%
610184	2.13	2	204,929,169	A	G	350	348	431	105	213	31	80.41%	87.30%
610184	5.01	5	60,253,636	A	C	690	188	311	83	140	80	78.93%	63.64%
610184	5.01	5	60,940,186	A	G	240	225	195	32	212	30	85.90%	87.60%
610184	5.01	5	61,370,064	G	T	331	326	349	53	307	26	86.82%	92.19%
610184	5.01	5	61,548,418	A	G	346	138	283	72	256	29	79.72%	89.82%
610184	5.01	5	63,026,131	C	T	87	91	201	24	67	8	89.33%	89.33%
610184	5.01	5	64,308,774	G	A	471	486	578	58	266	16	90.88%	94.33%
610184	5.01	5	64,392,698	C	T	765	651	514	40	291	14	92.78%	95.41%
610184	5.01	5	64,657,880	G	A	122	93	212	42	111	10	83.46%	91.74%
610184	5.01	5	65,000,893	G	C	117	114	176	17	129	11	91.19%	92.14%
610184	5.01	5	65,491,087	G	A	93	81	134	11	123	15	92.41%	89.13%
610184	5.01	5	66,216,779	G	A	281	222	370	47	305	24	88.73%	92.71%
610184	5.01	5	67,058,843	C	T	415	351	365	39	266	26	90.35%	91.10%
610184	5.01	5	67,521,917	T	C	332	308	98	13	173	18	88.29%	90.58%
610184	5.01	5	68,567,009	C	T	259	253	303	29	321	39	91.27%	89.17%
610184	5.01	5	68,668,222	G	A	532	521	205	31	430	36	86.86%	92.27%
610184	5.01	5	69,114,261	A	G	191	190	114	14	100	13	89.06%	88.50%
610184	5.01	5	69,326,714	T	C	273	15	374	2	307	1	99.47%	99.68%
610184	5.01	5	69,360,751	T	C	118	73	57	3	104	6	95.00%	94.55%
610184	5.01	5	70,716,422	G	A	210	250	418	42	224	22	90.87%	91.06%
610184	5.01	5	70,716,973	C	T	219	238	339	34	231	19	90.88%	92.40%
610184	5.01	5	70,748,489	T	C	231	130	205	11	121	8	94.91%	93.80%
610184	5.01	5	70,775,068	A	G	72	77	102	11	93	4	90.27%	95.88%
610184	5.01	5	70,814,793	T	C	187	229	249	17	313	23	93.61%	93.15%
610184	5.01	5	70,836,294	G	A	311	351	212	30	296	30	87.60%	90.80%
610184	5.01	5	70,842,213	G	A	153	163	163	9	193	23	94.77%	89.35%
610184	5.01	5	70,842,405	T	A	153	122	118	12	171	11	90.77%	93.96%
610184	5.01	5	70,869,268	T	C	134	144	32	4	161	15	88.89%	91.48%
610184	5.01	5	70,888,367	G	A	94	84	38	5	83	7	88.37%	92.22%
610184	5.01	5	70,943,251	G	A	434	453	489	54	262	22	90.06%	92.25%
610184	5.01	5	71,307,446	T	C	402	323	347	40	285	39	89.66%	87.96%
610184	5.01	5	71,355,508	G	T	772	584	802	95	381	44	89.41%	89.65%
610184	5.01	5	71,449,075	A	G	282	199	156	10	341	21	93.98%	94.20%
610184	5.01	5	71,472,110	G	A	429	444	256	27	329	36	90.46%	90.14%
610184	5.01	5	71,653,318	C	T	434	415	306	39	320	29	88.70%	91.69%
610184	5.01	5	71,654,032	A	C	390	402	275	31	320	49	89.87%	86.72%
610184	5.01	5	71,757,220	G	C	349	342	194	20	320	25	90.65%	92.75%
610184	5.01	5	71,766,219	T	G	236	262	199	27	225	16	88.05%	93.36%
610184	5.01	5	71,774,895	T	C	130	131	115	13	157	7	89.84%	95.73%

610184	5.01	5	71,868,058	C	T	458	353	428	46	361	16	90.30%	95.76%
610184	5.01	5	71,869,795	T	C	395	336	408	33	309	16	92.52%	95.08%
610184	5.01	5	71,872,353	G	C	509	453	532	64	351	33	89.26%	91.41%
610184	5.01	5	72,286,717	T	C	294	263	95	4	320	46	95.96%	87.43%
610184	5.01	5	73,243,473	C	T	215	195	174	17	361	36	91.10%	90.93%
610184	5.01	5	73,254,710	T	C	329	228	224	19	292	33	92.18%	89.85%
610184	5.01	5	74,045,083	G	A	269	264	274	51	269	26	84.31%	91.19%
610184	5.01	5	74,113,523	T	C	160	190	235	34	331	36	87.36%	90.19%
610184	5.01	5	75,477,416	G	A	173	193	215	27	236	21	88.84%	91.83%
610184	5.01	5	76,331,476	A	G	264	245	190	28	233	12	87.16%	95.10%
610184	5.01	5	78,374,356	T	A	36	76	89	13	62	5	87.25%	92.54%
610184	5.01	5	78,457,715	A	G	281	248	115	28	324	33	80.42%	90.76%
610184	5.01	5	79,131,173	C	T	297	246	208	32	264	23	86.67%	91.99%
610184	5.01	5	80,293,554	A	G	309	463	232	35	321	37	86.89%	89.66%
610184	5.01	5	81,501,831	C	A	492	405	514	60	355	18	89.95%	95.17%
610184	5.01	5	82,256,519	C	T	384	432	402	58	272	32	87.39%	89.47%
610184	5.01	5	83,671,427	C	T	162	168	204	23	122	17	89.87%	87.77%
610184	5.01	5	84,728,086	T	C	421	416	445	53	317	28	89.26%	91.88%
610184	5.01	5	85,447,105	T	C	275	331	347	36	182	27	90.60%	87.14%
610184	5.01	5	85,628,859	T	C	273	344	163	21	124	15	88.59%	89.21%
610184	5.01	5	85,748,295	C	T	279	287	406	48	304	31	89.43%	90.75%
610184	5.01	5	87,218,590	T	C	361	376	261	53	288	32	83.12%	90.00%
610184	5.01	5	87,901,544	A	G	556	674	604	63	283	22	90.55%	92.79%
610184	5.01	5	88,101,019	G	A	407	393	433	53	308	39	89.09%	88.76%
610184	5.01	5	88,908,139	C	T	429	400	350	40	242	15	89.74%	94.16%
610184	5.01	5	90,010,765	T	C	161	140	218	26	102	9	89.24%	91.96%
610184	5.01	5	90,077,266	A	G	361	309	362	42	341	25	89.60%	93.17%
610184	5.01	5	90,088,128	C	T	255	273	536	62	247	27	89.63%	90.15%
610184	5.01	5	90,453,349	T	C	343	345	359	34	213	19	91.35%	91.81%
610184	5.01	5	91,058,336	T	C	365	395	401	42	276	13	92.12%	95.53%
610184	5.01	5	92,244,938	G	A	428	446	472	54	257	33	89.73%	88.62%
610184	5.01	5	92,555,024	G	A	297	255	207	33	214	18	86.25%	92.24%
610184	5.01	5	93,777,773	T	C	625	594	630	64	272	36	90.78%	88.31%
610184	5.01	5	96,147,056	C	T	235	220	201	24	300	26	92.38%	93.03%
610184	5.01	5	96,538,621	T	A	234	208	256	33	268	27	88.88%	90.85%
610184	5.01	5	97,941,533	T	C	103	97	112	13	92	5	89.60%	94.85%
610184	5.01	5	101,776,640	C	G	192	209	232	23	108	15	90.98%	87.80%
610184	5.01	5	108,415,946	G	T	438	477	390	68	338	43	85.15%	88.71%
610184	5.01	5	111,638,975	A	G	242	245	432	32	241	26	93.10%	90.26%
610184	5.01	5	112,414,634	C	T	175	154	213	21	232	23	91.03%	88.89%
610184	5.01	5	112,492,460	G	A	347	246	398	32	210	18	92.92%	92.11%
610184	5.01	5	112,204,458	T	G	458	354	368	29	296	23	92.70%	92.79%
610184	5.01	5	112,255,838	C	T	230	362	114	22	261	35	83.82%	88.18%
610184	5.01	5	112,596,512	T	A	295	339	356	27	230	13	93.65%	94.65%
610184	5.01	5	114,079,910	A	C	290	301	178	12	376	36	93.68%	91.26%
610184	5.01	5	115,173,089	G	T	227	251	277	32	155	8	89.64%	95.00%
610184	5.01	5	115,535,857	T	G	167	208	207	30	123	12	87.34%	91.11%
610184	5.01	5	115,369,537	C	G	425	549	475	57	271	28	89.29%	90.64%
610184	5.01	5	118,512,703	A	G	250	324	627	66	395	39	90.48%	91.01%
610184	5.01	5	122,386,318	G	A	203	243	151	13	189	17	92.07%	91.75%
610184	5.01	5	122,465,635	G	C	327	308	245	34	144	23	87.81%	86.23%
610184	5.01	5	122,754,925	G	A	269	235	212	18	237	21	92.11%	91.86%
610184	5.01	5	126,874,703	A	G	282	163	321	11	141	6	96.69%	95.92%
610184	5.01	5	127,623,113	C	T	207	205	272	33	228	24	89.18%	90.48%
610184	5.01	5	129,504,205	A	G	217	221	274	38	301	30	87.82%	90.94%
610184	5.01	5	130,794,561	C	T	217	229	249	38	301	23	86.76%	92.90%
610184	5.01	5	131,689,248	G	T	305	316	182	17	256	19	91.46%	93.09%
610184	5.01	5	131,699,668	T	C	246	293	258	27	273	28	90.53%	90.70%
610184	5.01	5	131,723,077	G	A	642	622	194	18	450	31	91.51%	93.56%
610184	5.01	5	131,724,882	T	C	492	503	152	14	350	28	91.57%	92.59%
610184	5.01	5	131,735,192	G	A	175	156	75	7	357	36	91.46%	90.84%
610184	5.01	5	131,745,758	A	C	379	381	149	17	214	20	89.76%	91.45%
610184	5.01	5	131,755,579	C	T	394	402	194	31	361	41	86.22%	89.80%
610184	5.01	5	131,756,611	T	G	422	460	228	30	327	34	88.37%	90.58%
610184	5.01	5	131,758,706	C	T	322	343	217	21	347	25	91.18%	93.28%
610184	5.01	5	131,787,538	G	T	221	240	236	26	297	24	90.08%	92.52%
610184	5.01	5	131,953,543	G	A	248	240	288	23	153	18	92.60%	89.47%
610184	5.01	5	131,981,409	G	A	286	325	531	52	313	28	91.08%	91.79%
610184	5.01	5	132,059,434	C	T	163	151	395	29	208	18	93.16%	92.04%
610184	5.01	5	132,137,384	A	G	304	274	92	13	412	58	87.62%	87.66%
610184	5.01	5	132,166,028	C	T	429	440	136	14	335	30	90.67%	91.78%
610184	5.01	5	132,252,733	A	G	149	136	186	26	204	22	87.74%	90.27%
610184	5.01	5	132,363,064	T	C	280	351	190	19	446	33	90.91%	93.11%
610184	5.01	5	132,382,532	G	C	295	294	80	10	227	28	88.89%	89.02%
610184	5.01	5	132,775,664	T	G	348	417	110	11	201	24	90.91%	89.33%
610184	5.01	5	132,826,298	G	C	286	330	172	15	276	24	91.98%	92.00%
610184	5.01	5	132,849,495	A	G	209	200	367	27	385	38	93.15%	91.02%
610184	5.01	5	132,874,305	C	T	249	183	251	34	285	25	88.07%	91.94%
610184	5.01	5	132,929,856	A	C	295	267	269	27	433	38	90.88%	91.93%
610184	5.01	5	133,029,830	A	G	279	274	310	39	200	11	88.83%	94.79%
610184	5.01	5	133,150,743	C	T	417	412	355	49	379	26	87.87%	93.58%
610184	5.01	5	133,281,803	C	T	445	480	249	35	290	21	87.68%	93.25%
610184	5.01	5	133,733,526	A	G	216	228	74	16	359	28	82.22%	92.76%
610184	5.01	5	133,809,107	T	C	528	493	257	21	303	25	92.45%	92.38%
610184	5.01	5	134,121,831	T	C	191	204	61	5	270	34	92.42%	88.82%
610184	5.01	5	134,470,527	A	T	369	389	175	18	325	23	90.67%	93.39%
610184	5.01	5	134,480,207	T	C	199	213	115	11	292	26	91.27%	91.82%
610184	5.01	5	134,747,972	C	A	136	146	126	12	172	15	91.30%	91.98%
610184	5.01	5	134,803,596	A	G	281	219	137	15	299	28	90.13%	91.44%
610184	5.01	5	134,807,361	A	C	223	209	97	11	272	26	89.81%	91.28%
610184	5.01	5	134,940,503	G	A	312	254	55	7	430	43	88.71%	90.91%
610184	5.01	5	134,971,343	T	C	139	159	159	19	319	23	88.33%	93.27%
610184	5.01	5	134,971,400	C	G	129	154	147	19	268	20	88.55%	93.06%
610184	5.01	5	134,995,289	T	C	449	421	442	64	338	30	87.35%	91.85%

610184	5.01	5	135,060,795	T	C	223	116	208	16	252	12	92.86%	95.45%
610184	5.01	5	135,078,440	G	A	338	277	211	24	303	29	89.79%	91.27%
610184	5.01	5	135,112,783	G	A	118	125	56	9	255	23	86.15%	91.73%
610184	5.01	5	135,126,044	T	G	152	146	53	7	207	31	88.33%	86.97%
610184	5.01	5	135,310,239	G	A	314	324	262	41	419	37	86.47%	91.89%
610184	5.01	5	135,318,008	T	C	371	323	343	36	264	26	90.50%	91.03%
610184	5.01	5	135,336,499	T	A	358	316	305	45	345	27	87.14%	92.74%
610184	5.01	5	135,377,759	C	T	235	186	253	32	282	26	88.77%	91.56%
610184	5.01	5	135,421,653	C	T	496	525	174	24	262	31	87.88%	89.42%
610184	5.01	5	135,463,039	T	C	202	217	214	24	77	11	89.92%	87.50%
610184	5.01	5	135,824,500	G	C	291	235	283	23	240	29	92.48%	89.22%
610184	5.01	5	136,365,328	G	C	329	359	295	32	272	31	90.21%	89.77%
610184	5.01	5	136,632,149	C	T	275	238	263	38	270	25	87.38%	91.53%
610184	5.01	5	136,636,576	G	A	381	389	316	41	366	38	88.52%	90.59%
610184	5.01	5	136,638,798	T	C	427	412	332	39	334	30	89.49%	91.76%
610184	5.01	5	136,666,485	C	G	265	266	244	28	269	19	89.71%	93.40%
610184	5.01	5	136,938,298	A	G	306	272	199	21	221	20	90.45%	91.70%
610184	5.01	5	138,230,932	C	T	372	323	375	46	292	34	89.07%	89.60%
610184	5.01	5	138,248,820	G	T	703	40	565	28	210	74	95.38%	89.72%
610184	5.01	5	138,252,605	A	G	307	213	191	18	301	27	91.39%	91.77%
610184	5.01	5	138,410,267	A	G	672	539	252	29	466	36	89.69%	92.83%
610184	5.01	5	138,431,075	T	C	336	320	174	22	313	32	88.78%	90.72%
610184	5.01	5	138,441,634	T	C	453	418	358	27	388	27	92.99%	93.49%
610184	5.01	5	138,473,973	T	C	273	245	176	10	153	14	94.62%	91.62%
610184	5.01	5	138,515,032	A	C	362	343	233	23	229	24	91.02%	90.51%
610184	5.01	5	138,515,382	G	A	230	195	144	15	119	11	90.57%	91.54%
610184	5.01	5	138,521,594	G	A	438	442	140	10	230	24	92.33%	92.23%
610184	5.01	5	138,559,950	T	C	430	505	138	20	259	25	87.43%	91.20%
610184	5.01	5	138,579,397	C	A	208	213	40	5	204	17	88.89%	92.31%
610184	5.01	5	138,664,113	A	C	338	381	187	18	227	16	91.22%	93.42%
610184	5.01	5	138,696,262	G	C	288	344	185	21	206	20	89.81%	91.15%
610184	5.01	5	138,764,394	T	C	165	149	60	4	245	15	93.75%	94.23%
610184	5.01	5	138,766,550	T	C	126	141	54	5	209	22	91.53%	90.48%
610184	5.01	5	138,793,741	G	C	153	184	107	13	247	22	89.17%	91.82%
610184	5.01	5	138,800,490	A	C	240	185	90	11	167	7	89.11%	95.89%
610184	5.01	5	139,364,786	C	T	325	273	378	43	171	19	89.79%	90.00%
610184	5.01	5	140,233,119	A	G	14	18	23	4	29	4	85.10%	87.88%
610184	5.01	5	140,323,556	G	A	187	211	114	22	435	39	83.82%	91.77%
610184	5.01	5	140,333,958	G	T	270	246	196	11	222	18	94.69%	92.50%
610184	5.01	5	140,451,991	C	T	355	312	152	11	255	25	93.25%	91.07%
610184	5.01	5	140,459,805	A	G	216	159	85	11	308	28	88.54%	91.67%
610184	5.01	5	140,547,448	T	G	252	225	52	6	263	36	89.65%	87.95%
610184	5.01	5	140,548,240	C	T	231	265	41	15	295	22	73.21%	93.85%
610184	5.01	5	140,549,537	A	G	181	170	40	2	194	16	95.24%	92.38%
610184	5.01	5	140,564,045	T	C	80	8	36	1	105	1	97.30%	99.05%
610184	5.01	5	140,835,785	A	G	158	161	42	5	230	13	89.56%	94.65%
610184	5.01	5	141,079,048	A	G	614	624	317	28	321	34	91.88%	90.42%
610184	5.01	5	141,091,566	A	G	569	620	202	26	386	25	88.60%	93.99%
610184	5.01	5	141,187,742	A	G	638	593	188	14	365	38	93.07%	90.57%
610184	5.01	5	142,066,470	G	T	474	400	120	19	246	21	86.33%	92.13%
610184	5.01	5	142,621,094	C	T	327	305	404	48	246	19	89.38%	92.83%
610184	5.01	5	143,076,857	T	C	273	227	314	35	271	32	89.97%	89.44%
610184	5.01	5	143,175,676	A	C	453	410	375	34	350	42	91.96%	89.29%
610184	5.01	5	144,162,054	T	C	169	192	287	36	186	26	88.85%	87.74%
610184	5.01	5	144,361,294	A	G	185	163	214	27	97	11	88.80%	89.81%
610184	5.01	5	145,226,278	G	T	492	465	353	22	245	14	94.13%	94.59%
610184	5.01	5	145,231,663	C	T	382	372	427	64	295	39	86.97%	88.32%
610184	5.01	5	145,488,836	A	C	497	231	311	168	172	149	64.93%	53.58%
610184	5.01	5	146,714,768	G	A	229	218	296	31	187	24	90.52%	88.63%
610184	5.01	5	147,357,557	C	T	20	27	20	6	15	10	76.92%	60.00%
610184	5.01	5	147,783,639	A	G	248	218	256	34	325	25	88.28%	92.86%
610184	5.01	5	147,798,249	C	A	218	215	321	26	418	40	92.51%	91.27%
610184	5.01	5	148,090,221	G	A	424	378	484	55	406	48	89.80%	89.43%
610184	5.01	5	148,418,996	C	A	684	576	289	36	291	30	88.92%	90.65%
610184	5.01	5	150,224,764	T	G	627	469	513	64	384	29	88.91%	92.98%
610184	5.01	5	151,030,677	T	G	344	310	241	27	246	28	89.93%	89.78%
610184	5.01	5	151,654,367	T	C	400	386	366	33	264	24	91.73%	91.67%
610184	5.01	5	151,999,472	A	G	366	318	390	47	193	20	89.24%	90.61%
610184	5.01	5	152,345,361	T	G	328	293	295	43	218	23	87.28%	90.46%
610184	5.01	5	153,334,164	C	T	514	460	423	49	317	27	89.62%	92.15%
610184	5.01	5	153,393,583	T	C	340	343	370	43	342	33	89.59%	91.20%
610184	5.01	5	153,444,620	A	G	241	241	221	23	330	38	90.57%	89.67%
610184	5.01	5	154,830,892	T	G	267	316	456	53	297	43	89.59%	87.35%
610184	5.01	5	154,992,079	C	T	300	357	385	51	299	22	88.30%	93.15%
610184	5.01	5	155,444,064	C	T	180	204	197	23	175	21	89.55%	89.29%
610184	5.01	5	155,707,585	C	A	593	737	275	36	280	28	88.42%	90.91%
610184	5.01	5	156,211,601	T	C	380	374	219	24	213	23	90.12%	90.25%
610184	5.01	5	156,211,692	T	G	462	463	259	31	269	28	89.31%	90.57%
610184	5.01	5	156,464,314	A	C	456	439	428	57	265	36	88.25%	88.04%
610184	7.01	7	172,124	C	T	15	22	23	10	72	52	69.70%	58.06%
610184	7.01	7	213,452	T	C	224	145	46	32	225	92	58.97%	70.98%
610184	7.01	7	217,950	T	A	274	283	77	69	256	72	52.74%	78.05%
610184	7.01	7	218,224	A	G	328	318	80	60	230	79	57.14%	74.43%
610184	7.01	7	221,731	A	G	192	228	92	69	316	110	57.14%	74.18%
610184	7.01	7	221,831	G	A	167	199	74	73	331	120	50.34%	73.39%
610184	7.01	7	223,116	A	T	125	158	49	52	275	103	48.51%	72.75%
610184	7.01	7	227,977	C	G	37	71	28	22	118	38	56.00%	75.64%
610184	7.01	7	247,424	C	T	156	136	35	27	178	72	56.45%	71.20%
610184	7.01	7	658,661	C	T	94	137	46	64	187	71	41.82%	72.48%
610184	7.01	7	684,365	G	A	41	41	13	11	46	25	54.17%	64.79%
610184	7.01	7	691,797	T	G	224	220	56	54	217	73	50.91%	74.83%
610184	7.01	7	711,067	T	C	144	129	139	149	120	43	48.26%	73.62%
610184	7.01	7	724,722	G	A	71	72	13	21	96	33	38.24%	74.42%
610184	7.01	7	724,795	C	T	150	153	27	34	161	60	44.26%	72.85%
610184	7.01	7	729,070	A	G	503	553	71	57	350	148	55.47%	70.28%

610184	7.01	7	740,328	A	C	87	54	23	15	100	27	60.53%	78.74%
610184	7.01	7	741,921	G	T	52	35	17	17	69	18	50.00%	79.31%
610184	7.01	7	742,349	G	C	54	40	22	14	81	25	61.11%	76.42%
610184	7.01	7	798,615	C	T	133	163	33	23	154	56	58.93%	73.33%
610184	7.01	7	798,827	C	T	153	171	39	25	132	49	60.94%	72.93%
610184	7.01	7	803,854	C	T	97	85	18	17	108	43	51.43%	71.52%
610184	7.01	7	807,486	C	T	163	178	33	29	165	73	53.23%	69.33%
610184	7.01	7	818,807	T	C	84	93	24	23	124	42	51.06%	74.70%
610184	7.01	7	831,928	C	A	212	172	40	37	144	33	51.95%	81.36%
610184	7.01	7	836,186	A	G	97	121	50	26	158	65	65.79%	70.85%
610184	7.01	7	837,895	T	C	186	215	51	54	240	88	48.57%	73.17%
610184	7.01	7	837,982	T	G	107	143	44	47	163	70	48.35%	69.96%
610184	7.01	7	839,374	G	A	150	203	55	51	287	87	51.89%	76.74%
610184	7.01	7	851,230	A	G	183	168	55	43	355	122	56.12%	74.42%
610184	7.01	7	851,269	C	T	174	153	61	46	313	128	57.01%	70.98%
610184	7.01	7	868,976	C	G	546	460	99	88	334	91	52.94%	78.59%
610184	7.01	7	878,033	T	C	186	185	35	53	287	97	39.77%	74.74%
610184	7.01	7	878,183	A	G	123	111	26	30	204	66	46.43%	75.56%
610184	7.03	7	2,682,740	A	T	207	95	29	11	254	249	72.50%	50.50%
610184	7.03	7	2,721,151	A	G	118	153	22	19	342	120	53.66%	74.02%
610184	7.03	7	2,721,763	G	C	118	96	24	28	278	71	46.15%	79.66%
610184	7.03	7	2,721,898	G	T	88	90	18	13	195	61	58.06%	76.17%
610184	7.03	7	2,722,442	C	A	172	154	20	22	298	102	47.62%	74.50%
610184	7.03	7	2,726,488	A	G	161	142	30	25	338	85	54.55%	79.91%
610184	7.03	7	2,774,832	A	C	224	307	100	94	209	83	51.55%	71.58%
610184	7.03	7	2,788,203	A	C	229	209	151	130	170	54	53.74%	75.89%
610184	7.03	7	2,812,645	G	A	46	4	98	13	21	1	89.09%	95.45%
610184	7.03	7	2,853,619	C	T	241	55	130	33	53	6	79.75%	89.83%
610184	7.03	7	2,871,454	G	A	260	292	71	90	191	81	44.10%	70.22%
610184	7.03	7	2,874,869	A	G	219	229	68	80	180	50	45.95%	78.26%
610184	7.03	7	3,063,849	G	T	809	749	304	270	332	100	52.96%	76.85%
610184	7.03	7	3,080,842	G	C	295	286	173	161	174	67	51.80%	72.20%
610184	7.03	7	3,080,987	C	A	158	154	107	79	90	32	57.53%	73.77%
610184	7.03	7	3,120,941	C	T	926	856	699	738	384	141	48.64%	73.14%
610184	7.03	7	3,323,709	C	G	521	421	640	437	288	107	58.42%	72.01%
610184	7.03	7	3,323,714	C	G	523	395	643	419	399	103	60.55%	74.38%
610184	7.03	7	3,325,435	A	G	673	542	672	465	270	92	59.10%	74.59%
610184	7.03	7	3,334,723	A	T	51	34	82	58	21	6	58.57%	77.78%
610184	7.03	7	3,338,487	T	G	302	319	371	314	236	80	54.16%	74.68%
610184	7.03	7	3,366,989	A	C	505	356	515	452	322	102	53.26%	75.94%
610184	7.03	7	3,375,854	C	T	298	122	319	229	208	24	58.21%	89.65%
610184	7.03	7	3,421,035	G	C	378	447	468	477	257	90	49.52%	74.09%
610184	7.03	7	3,431,937	C	G	180	223	408	414	179	72	49.84%	71.31%
610184	7.04	7	5,136,058	C	T	332	259	67	54	200	64	55.37%	75.76%
610184	7.04	7	5,136,062	A	G	334	244	69	49	199	64	56.57%	75.67%
610184	7.04	7	5,136,099	C	T	309	239	57	36	227	66	61.29%	77.47%
610184	7.04	7	5,136,939	A	G	331	298	52	58	263	78	47.27%	77.13%
610184	7.04	7	5,136,970	G	C	310	273	51	56	251	65	47.66%	79.43%
610184	7.04	7	5,137,772	G	C	464	397	70	69	307	82	50.36%	78.92%
610184	7.04	7	5,144,450	G	A	169	124	24	24	60	24	50.00%	71.43%
610184	7.04	7	5,154,406	C	T	70	62	19	17	78	24	52.78%	76.47%
610184	7.04	7	5,156,404	C	T	34	47	9	13	31	22	40.91%	58.49%
610184	7.04	7	5,164,040	A	G	193	156	89	78	292	114	53.29%	71.92%
610184	7.04	7	5,165,200	C	T	195	160	114	68	209	76	62.64%	73.33%
610184	7.04	7	5,185,285	T	A	276	255	153	128	180	51	54.45%	77.92%
610184	7.04	7	5,231,493	G	T	42	33	20	10	84	31	66.67%	73.04%
610184	7.04	7	5,646,818	C	T	191	179	121	113	215	73	51.71%	74.65%
610184	7.04	7	5,713,140	T	G	151	187	133	148	143	66	47.33%	68.42%
610184	7.04	7	5,770,634	G	A	85	58	51	59	61	19	46.36%	76.25%
610184	7.04	7	5,819,061	G	A	253	90	82	27	226	43	75.23%	84.01%
610184	7.04	7	5,819,134	T	C	229	161	88	50	187	80	63.77%	70.04%
610184	7.04	7	6,028,092	G	C	196	196	138	125	120	56	52.47%	68.18%
610184	7.04	7	6,141,835	G	A	149	15	126	15	87	12	89.56%	87.88%
610184	7.04	7	6,141,838	C	A	165	22	138	15	102	12	90.20%	89.47%
610184	7.04	7	6,221,785	T	G	277	58	148	39	128	25	79.14%	83.66%
610184	7.04	7	6,548,483	G	A	235	46	21	1	74	6	95.45%	92.50%
610184	7.04	7	6,751,312	G	C	543	238	76	66	299	126	53.52%	70.35%
610184	7.04	7	6,774,412	A	G	549	544	109	117	154	148	48.23%	50.99%
610184	7.04	7	6,791,959	T	C	48	64	12	15	14	14	44.44%	50.00%
610184	7.04	7	6,821,031	T	C	183	192	56	74	159	71	43.08%	69.13%
610184	7.04	7	6,821,275	T	G	68	53	24	19	39	7	55.81%	84.78%
610184	7.04	7	6,850,598	T	C	27	1	25	0	58	1	100.00%	100.00%
610184	7.04	7	6,858,054	T	C	194	0	68	0	106	0	100.00%	100.00%
610184	7.04	7	6,858,160	C	T	93	16	32	1	55	11	96.97%	83.33%
610184	7.04	7	6,898,960	G	A	291	237	129	208	290	86	38.28%	77.13%
610184	7.04	7	6,900,116	C	T	251	15	192	23	152	10	89.30%	93.83%
610184	7.04	7	6,922,874	T	C	480	437	157	126	250	87	55.48%	74.18%
610184	7.04	7	6,925,945	G	C	281	254	93	71	171	64	56.71%	72.77%
610184	7.04	7	6,924,482	G	A	232	196	74	62	179	61	54.41%	74.58%
610184	7.04	7	6,927,328	T	C	207	3	68	2	160	10	97.14%	94.12%
610184	7.04	7	6,927,389	C	T	222	9	70	3	149	27	95.89%	84.66%
610184	7.04	7	6,927,397	G	T	212	9	66	3	141	25	95.65%	84.94%
610184	7.04	7	6,927,413	C	T	200	7	65	3	148	14	95.59%	91.36%
610184	7.04	7	6,936,718	C	T	113	98	34	40	114	51	45.95%	69.09%
610184	7.04	7	6,936,719	C	G	113	97	34	40	112	49	45.95%	69.57%
610184	7.04	7	6,986,362	T	C	220	30	96	15	108	32	86.49%	77.14%
610184	7.04	7	6,986,473	T	A	462	144	188	87	222	149	68.36%	59.84%
610184	7.04	7	7,348,397	C	T	310	259	459	405	249	75	53.13%	76.85%
610184	7.04	7	7,348,427	C	A	267	233	395	366	238	71	51.91%	77.02%
610184	7.04	7	7,537,619	C	G	434	482	353	441	319	126	44.46%	71.69%
610184	7.04	7	7,553,993	C	T	316	315	318	370	216	85	46.22%	71.76%
610184	7.04	7	7,554,049	C	T	258	257	282	313	223	80	47.39%	73.60%
610184	7.04	7	7,613,176	T	G	192	224	367	362	242	95	50.34%	71.81%
610184	7.04	7	10,536,063	A	C	122	133	295	299	69	30	49.66%	69.70%
610184	7.05	7	14,963,697	G	T	488	432	471	484	304	91	49.32%	76.96%

610184	7.05	7	15,072,049	T	C	308	318	266	205	270	85	56.48%	76.06%
610184	7.05	7	15,443,035	T	C	155	183	352	333	166	69	51.39%	70.64%
610184	7.05	7	16,008,437	A	G	81	93	140	125	81	36	52.83%	69.23%
610184	7.05	7	16,134,798	G	A	381	359	536	435	253	100	55.20%	71.67%
610184	7.05	7	16,327,334	G	A	389	389	264	240	227	78	52.38%	74.43%
610184	7.05	7	16,412,338	G	A	279	233	320	284	365	122	52.98%	74.95%
610184	7.05	7	16,569,613	G	A	285	355	240	199	266	92	54.67%	74.30%
610184	7.05	7	16,815,415	T	G	168	165	205	155	177	65	56.94%	73.14%
610184	7.05	7	17,005,857	G	A	484	519	657	677	241	75	49.25%	76.27%
610184	7.05	7	17,219,992	C	T	146	130	286	349	178	54	45.04%	76.72%
610184	7.05	7	17,754,666	T	C	201	221	282	336	105	47	45.63%	69.08%
610184	7.05	7	18,427,737	G	T	396	479	623	532	239	70	53.94%	77.35%
610184	7.05	7	18,896,541	C	T	325	338	404	336	335	129	54.59%	72.20%
610184	7.05	7	18,931,924	C	T	264	268	319	332	192	86	49.00%	69.06%
610184	7.05	7	19,566,392	G	A	378	380	473	453	266	87	51.08%	75.35%
610184	7.05	7	19,577,674	A	G	250	250	260	239	212	67	52.10%	75.99%
610184	7.05	7	19,579,230	A	G	237	205	261	243	294	91	51.79%	76.36%
610184	7.05	7	19,582,047	T	C	266	315	284	319	229	97	47.10%	70.25%
610184	7.05	7	19,582,660	C	T	182	164	200	244	168	80	45.05%	67.74%
610184	7.05	7	19,584,238	G	C	288	278	343	337	276	95	50.44%	74.39%
610184	7.05	7	19,585,628	G	A	90	97	175	175	59	25	50.00%	70.24%
610184	7.05	7	19,586,671	T	C	226	244	254	295	259	99	46.27%	72.35%
610184	7.05	7	19,591,263	A	G	313	290	254	360	169	86	41.37%	66.27%
610184	7.05	7	19,592,523	G	A	300	211	275	321	180	69	46.14%	72.29%
610184	7.05	7	19,593,080	T	A	266	293	360	393	254	88	47.81%	74.27%
610184	7.05	7	19,609,626	A	G	380	353	734	728	271	100	50.21%	73.05%
610184	7.05	7	19,617,242	C	G	442	500	658	566	298	103	53.76%	74.50%
610184	7.05	7	19,637,811	A	C	493	531	536	453	277	85	54.20%	76.52%
610184	7.06	7	26,445,121	G	A	202	236	188	191	141	59	49.60%	70.50%
610184	7.06	7	26,457,358	A	G	342	284	238	238	109	35	50.00%	75.69%
610184	7.06	7	26,532,791	A	G	382	400	327	286	245	96	53.34%	71.85%
610184	7.06	7	26,539,388	C	G	471	539	274	264	287	110	50.93%	72.29%
610184	7.06	7	26,548,087	T	C	256	230	291	259	298	89	52.91%	77.00%
610184	7.06	7	26,574,138	T	C	450	400	306	298	237	69	50.66%	77.45%
610184	7.06	7	26,606,584	C	G	167	225	97	157	170	61	38.30%	73.59%
610184	7.06	7	26,609,472	C	G	359	296	224	222	298	101	50.22%	74.69%
610184	7.06	7	26,606,265	G	A	348	311	420	412	290	111	50.48%	72.32%
610184	7.06	7	26,998,124	C	T	382	384	276	292	278	84	48.59%	76.80%
610184	7.06	7	27,035,712	A	C	420	38	505	48	262	109	91.32%	70.62%
610184	7.06	7	27,133,386	C	A	394	340	54	65	330	90	60.67%	78.57%
610184	7.06	7	27,143,538	C	T	342	336	56	60	332	82	48.28%	80.19%
610184	7.06	7	27,148,955	T	C	110	101	26	17	148	44	60.47%	77.08%
610184	7.06	7	27,155,971	T	C	136	147	23	25	126	52	47.92%	70.79%
610184	7.06	7	27,468,229	C	T	115	124	73	106	155	64	40.78%	70.78%
610184	7.06	7	27,589,636	T	C	273	367	296	305	276	101	49.25%	73.21%
610184	7.06	7	27,609,544	T	C	289	276	274	323	172	61	45.90%	73.82%
610184	7.06	7	27,910,795	T	A	246	255	186	163	176	57	53.45%	75.54%
610184	7.06	7	27,948,003	T	C	238	417	184	168	305	87	52.27%	77.81%
610184	7.06	7	28,068,043	C	G	387	342	372	394	350	122	48.56%	74.15%
610184	7.06	7	28,322,014	C	T	198	185	409	344	230	87	54.32%	72.56%
610184	7.06	7	28,368,270	A	G	399	486	625	510	206	95	55.07%	68.44%
610184	7.06	7	28,671,039	G	A	235	231	344	284	307	103	54.78%	74.88%
610184	7.06	7	28,760,807	A	G	262	261	200	175	313	119	53.33%	72.45%
610184	7.06	7	28,932,817	T	G	367	367	162	156	267	92	50.94%	74.37%
610184	7.06	7	29,036,734	G	A	311	264	648	561	321	122	53.80%	72.46%
610184	7.06	7	29,318,920	A	G	434	397	254	221	240	80	53.47%	75.00%
610184	7.06	7	29,579,823	T	C	280	247	196	221	327	103	47.00%	76.05%
610184	7.07	7	31,347,155	C	A	678	769	315	320	396	127	49.61%	75.72%
610184	7.07	7	31,464,130	T	G	303	272	211	199	200	87	51.46%	69.69%
610184	7.07	7	31,889,427	A	G	315	247	300	278	272	106	51.90%	71.96%
610184	7.07	7	32,193,053	T	C	400	425	394	333	296	78	54.20%	79.14%
610184	7.07	7	32,463,535	C	T	377	399	345	262	465	156	56.84%	74.88%
610184	7.07	7	32,800,964	A	G	446	476	412	387	192	67	51.56%	74.13%
610184	7.07	7	32,970,770	T	C	278	323	166	179	313	91	48.12%	77.48%
610184	7.07	7	32,995,806	C	T	166	231	155	147	113	46	51.32%	71.07%
610184	7.07	7	33,205,359	A	G	393	616	447	437	252	105	50.57%	70.59%
610184	7.07	7	33,565,146	A	G	771	632	744	675	303	80	52.43%	79.11%
610184	7.07	7	33,572,870	T	G	356	328	427	423	139	40	50.24%	77.65%
610184	7.07	7	33,976,471	C	T	393	358	383	335	298	110	53.34%	73.04%
610184	7.07	7	33,980,018	G	A	376	274	424	319	347	94	57.07%	78.68%
610184	7.07	7	34,140,698	A	G	478	384	279	230	339	133	54.81%	71.82%
610184	7.07	7	34,460,149	C	T	162	155	310	267	111	35	53.73%	76.03%
610184	7.07	7	34,759,582	C	T	231	297	309	288	156	61	51.76%	71.89%
610184	7.07	7	34,784,638	A	T	425	382	436	354	307	112	55.19%	73.27%
610184	7.07	7	36,139,418	C	T	248	215	254	216	150	48	54.04%	75.76%
610184	7.07	7	37,334,686	A	C	356	323	222	157	341	107	58.58%	76.12%
610184	7.07	7	37,856,792	A	G	262	352	871	781	286	97	52.72%	74.67%
610184	7.07	7	37,856,841	T	C	231	281	723	708	236	86	50.52%	73.29%
610184	7.07	7	37,920,365	T	C	314	345	195	153	331	120	56.03%	73.39%
610184	7.07	7	39,520,737	A	G	383	425	367	296	360	130	55.35%	73.47%
610184	7.07	7	39,824,612	C	T	224	155	92	82	106	37	52.87%	74.13%
610184	7.07	7	39,978,326	C	T	300	330	188	181	261	72	50.95%	78.38%
610184	7.07	7	40,286,051	G	A	153	165	214	166	103	38	56.32%	73.05%
610184	7.07	7	41,848,395	C	T	187	166	439	359	165	39	55.01%	80.88%
610184	7.07	7	42,950,558	T	G	112	90	114	146	121	56	43.85%	68.36%
610184	7.08	7	44,797,967	T	C	344	380	72	65	458	149	52.55%	75.45%
610184	7.08	7	44,803,823	G	A	274	280	72	74	343	116	49.32%	74.73%
610184	7.08	7	44,803,847	C	A	289	296	78	76	387	128	50.65%	75.15%
610184	7.08	7	44,822,225	T	C	245	207	82	111	136	66	42.49%	67.33%
610184	7.08	7	44,833,229	G	A	388	386	195	163	297	102	54.47%	74.44%
610184	7.08	7	44,835,801	G	A	197	225	105	104	159	60	50.24%	72.60%
610184	7.08	7	44,836,062	T	C	236	199	112	96	229	95	53.85%	70.68%
610184	7.08	7	44,838,791	G	C	157	151	79	88	98	25	47.31%	79.67%
610184	7.08	7	44,841,568	T	C	222	270	121	141	168	73	46.18%	69.71%
610184	7.08	7	44,845,065	G	A	502	487	167	156	309	110	51.70%	73.75%

610184	7.08	7	44,850,181	C	A	37	28	12	15	30	13	44.44%	69.77%
610184	7.08	7	44,851,053	G	A	299	271	76	68	207	65	52.78%	76.10%
610184	7.08	7	44,857,508	A	G	422	405	74	80	375	104	48.05%	78.29%
610184	7.08	7	44,901,046	A	G	439	459	176	142	326	112	55.35%	74.43%
610184	7.08	7	44,954,577	C	A	677	570	270	245	316	130	52.43%	70.85%
610184	7.08	7	45,051,504	G	A	227	200	177	149	145	60	54.29%	70.73%
610184	7.08	7	45,067,111	C	T	275	228	107	103	255	87	50.95%	74.56%
610184	7.08	7	45,156,939	C	T	534	602	152	149	371	147	50.50%	71.62%
610184	7.08	7	45,157,832	G	C	350	371	132	93	258	92	58.67%	73.71%
610184	7.08	7	45,220,436	G	A	284	209	150	93	312	73	61.73%	81.04%
610184	7.08	7	45,228,805	T	C	243	226	169	147	302	137	53.48%	72.08%
610184	7.08	7	45,403,759	G	T	220	238	130	158	264	82	45.14%	76.30%
610184	7.08	7	45,416,938	A	C	419	424	239	248	371	119	49.08%	75.71%
610184	7.08	7	45,459,011	T	A	164	165	263	234	163	57	52.92%	74.09%
610184	7.08	7	45,488,261	C	T	213	225	373	301	141	53	55.34%	72.68%
610184	7.08	7	45,504,087	A	G	719	800	468	539	309	115	46.47%	72.88%
610184	7.08	7	45,516,237	T	A	307	428	219	376	181	124	36.81%	59.34%
610184	7.08	7	45,521,445	A	G	176	260	177	183	216	68	49.17%	76.06%
610184	7.08	7	45,570,590	T	C	391	424	99	140	218	91	41.43%	70.55%
610184	7.08	7	45,836,525	A	G	157	91	43	27	92	39	61.43%	70.22%
610184	7.08	7	48,256,031	T	C	165	171	373	304	262	84	55.10%	75.72%
610184	7.08	7	48,283,220	A	G	197	179	334	338	340	117	48.94%	74.40%
610184	7.08	7	48,285,344	G	T	200	141	273	266	306	114	50.65%	72.86%
610184	7.08	7	48,289,357	T	C	187	185	246	244	250	88	50.20%	73.96%
610184	7.08	7	48,307,390	T	C	1291	306	319	303	312	102	51.39%	75.36%
610184	7.08	7	48,857,329	A	G	93	125	95	58	115	35	62.09%	76.67%
610184	7.08	7	48,879,023	G	A	482	493	424	472	237	125	47.32%	72.35%
610184	7.08	7	48,935,973	A	G	137	14	120	6	235	7	95.24%	97.11%
610184	7.08	7	50,123,020	A	G	207	300	203	263	220	101	43.56%	68.54%
610184	7.08	7	50,133,056	G	A	190	281	178	251	187	92	41.49%	67.03%
610184	7.08	7	51,056,410	T	A	154	185	149	159	303	106	48.38%	74.08%
610184	7.09	7	61,772,452	G	A	54	73	22	46	50	26	32.35%	65.79%
610184	7.09	7	62,132,426	T	G	777	873	352	355	249	111	49.79%	69.17%
610184	7.09	7	62,189,684	C	A	290	301	141	109	186	58	56.40%	76.23%
610184	7.09	7	62,315,426	C	G	141	108	53	53	114	46	50.48%	71.35%
610184	7.09	7	62,369,259	C	T	150	142	194	181	119	49	51.73%	70.83%
610184	7.09	7	62,378,857	G	A	491	480	360	427	226	116	45.74%	66.08%
610184	7.09	7	62,391,495	A	G	367	376	228	272	198	96	45.60%	67.35%
610184	7.09	7	62,307,535	G	T	171	195	127	147	131	58	46.35%	69.31%
610184	7.09	7	62,307,653	A	G	165	224	132	146	113	55	47.48%	67.26%
610184	7.09	7	62,344,383	T	A	144	161	120	111	202	84	51.55%	70.63%
610184	7.09	7	62,446,404	T	C	24	26	14	13	24	10	51.65%	67.74%
610184	7.09	7	62,471,640	A	G	52	65	69	58	40	22	54.33%	64.52%
610184	7.09	7	62,581,632	G	A	169	101	81	105	74	27	43.55%	73.77%
610184	7.09	7	62,652,092	C	G	57	10	22	4	52	21	84.62%	71.73%
610184	7.09	7	62,668,512	C	T	489	331	108	64	319	197	62.79%	61.82%
610184	7.09	7	62,676,391	T	C	771	299	168	58	160	135	74.34%	54.24%
610184	7.09	7	62,677,902	G	A	634	271	85	42	139	100	66.93%	58.15%
610184	7.09	7	63,355,853	G	A	100	325	73	173	74	63	29.67%	54.01%
610184	7.09	7	63,358,686	A	G	171	158	116	117	96	29	49.79%	76.80%
610184	7.09	7	63,364,428	A	G	114	107	76	75	106	38	50.33%	73.61%
610184	7.09	7	63,522,231	C	T	139	134	94	143	76	24	39.66%	76.00%
610184	7.09	7	63,655,894	C	T	100	112	165	171	93	26	49.11%	78.15%
610184	7.09	7	63,949,590	A	G	67	85	105	104	114	35	50.24%	76.51%
610184	7.09	7	63,949,903	C	A	105	154	165	141	196	68	53.92%	74.24%
610184	7.09	7	63,951,124	T	G	126	144	150	151	223	59	49.83%	79.08%
610184	7.09	7	63,964,067	G	T	409	434	154	120	328	118	56.20%	73.54%
610184	7.09	7	64,014,912	T	G	66	64	93	107	80	44	46.50%	64.52%
610184	7.09	7	64,026,524	C	A	25	38	31	27	54	16	53.45%	77.14%
610184	7.09	7	64,049,051	A	G	347	305	358	321	378	123	52.72%	75.45%
610184	7.09	7	64,166,367	G	C	215	211	83	80	97	46	50.92%	67.83%
610184	7.09	7	64,280,984	G	A	295	1	221	1	215	0	99.55%	100.00%
610184	7.09	7	64,291,233	A	G	239	226	209	162	286	82	56.33%	77.72%
610184	7.09	7	64,298,505	G	A	307	100	362	178	259	87	67.04%	74.86%
610184	7.09	7	64,311,269	A	G	335	0	302	0	270	1	100.00%	99.63%
610184	7.09	7	64,346,507	G	A	396	369	74	67	252	128	52.48%	66.32%
610184	7.09	7	64,391,451	G	A	249	249	274	241	164	51	53.20%	76.28%
610184	7.09	7	64,445,057	T	G	155	209	145	217	152	73	40.06%	67.56%
610184	7.09	7	64,540,352	T	G	221	227	248	232	281	90	51.67%	75.74%
610184	7.09	7	64,540,695	G	A	210	180	246	197	223	93	55.53%	70.57%
610184	7.09	7	64,543,602	G	A	195	247	224	176	155	100	56.00%	60.78%
610184	7.09	7	64,562,094	T	C	275	274	373	239	320	113	60.95%	73.90%
610184	7.09	7	64,564,682	T	C	288	262	401	273	345	98	59.50%	77.88%
610184	7.09	7	64,565,638	A	G	412	375	577	314	380	144	46.76%	72.52%
610184	7.09	7	64,575,741	G	A	459	497	555	476	368	105	53.83%	77.80%
610184	7.09	7	64,726,507	C	A	286	286	205	223	142	57	47.90%	71.36%
610184	7.09	7	64,728,043	C	A	238	266	209	202	288	102	50.85%	73.85%
610184	7.09	7	64,728,723	G	A	491	89	415	70	295	46	85.57%	86.51%
610184	7.09	7	64,824,568	A	C	151	313	89	160	59	30	35.74%	66.29%
610184	7.09	7	64,839,912	G	C	204	163	97	66	219	77	59.51%	73.99%
610184	7.09	7	64,854,108	A	G	189	141	61	46	242	75	57.01%	76.34%
610184	7.09	7	64,881,031	T	C	110	140	99	101	166	57	49.50%	74.44%
610184	7.09	7	64,888,752	A	G	287	318	151	156	189	84	49.19%	69.23%
610184	7.09	7	64,919,757	A	G	169	234	122	122	169	52	50.00%	76.47%
610184	7.09	7	65,002,924	C	T	239	182	218	186	200	51	53.96%	79.68%
610184	7.09	7	65,010,419	A	C	429	412	556	520	330	127	51.67%	72.21%
610184	7.09	7	65,046,971	G	A	245	242	265	231	120	44	53.44%	73.17%
610184	7.10	7	65,913,652	T	C	314	285	258	215	264	106	54.55%	71.35%
610184	7.10	7	66,096,338	T	C	77	68	46	40	73	21	53.49%	77.66%
610184	7.10	7	66,196,034	G	A	310	2	290	13	236	1	95.71%	99.58%
610184	7.10	7	66,248,931	C	A	297	320	458	404	239	92	53.13%	72.21%
610184	7.10	7	66,422,464	G	T	387	274	111	79	306	65	58.42%	82.48%
610184	7.10	7	66,437,171	G	C	185	220	127	110	195	94	53.59%	67.47%
610184	7.10	7	66,464,883	T	C	402	386	100	103	331	89	49.26%	78.81%
610184	7.10	7	66,809,660	T	C	863	966	748	675	421	140	52.57%	75.04%

610184	7.10	7	67,203,139	A	T	279	275	133	105	167	53	55.88%	75.91%
610184	7.10	7	67,248,488	A	G	486	517	386	341	258	65	53.09%	79.88%
610184	7.10	7	67,583,238	A	G	410	335	211	195	231	72	51.97%	76.24%
610184	7.10	7	67,884,370	C	G	495	466	371	356	301	109	51.03%	73.41%
610184	7.10	7	67,924,206	T	G	863	830	770	638	287	124	54.69%	69.83%
610184	7.10	7	68,037,828	C	A	965	778	377	315	300	88	54.48%	77.32%
610184	7.10	7	68,135,991	C	A	264	258	170	141	222	75	54.66%	74.75%
610184	7.11	7	70,057,930	G	A	439	388	319	279	271	268	53.34%	50.28%
610184	7.11	7	70,057,948	A	G	442	375	298	267	258	250	52.74%	50.79%
610184	7.11	7	70,149,100	A	G	389	373	186	157	329	125	54.23%	72.47%
610184	7.11	7	70,192,628	C	T	396	431	133	78	250	70	63.03%	78.13%
610184	7.11	7	70,195,605	T	C	325	425	223	138	249	94	61.77%	72.59%
610184	7.11	7	70,215,870	T	G	276	279	243	106	199	76	69.63%	72.36%
610184	7.11	7	70,215,900	T	A	265	278	225	113	198	74	66.57%	72.79%
610184	7.11	7	70,254,940	G	A	264	255	279	217	124	62	56.25%	66.67%
610184	7.11	7	70,534,628	T	C	517	450	350	397	308	91	46.85%	77.19%
610184	7.11	7	70,610,898	A	G	301	227	213	209	319	107	50.47%	74.88%
610184	7.11	7	70,610,944	T	C	224	173	172	165	247	95	51.04%	72.22%
610184	7.11	7	70,630,930	A	G	398	345	252	242	219	94	51.01%	72.24%
610184	7.11	7	70,709,832	A	G	250	262	320	300	338	120	51.61%	73.80%
610184	7.11	7	70,716,413	C	T	285	285	272	282	315	112	49.10%	73.77%
610184	7.11	7	70,748,836	T	G	545	500	523	515	338	114	50.39%	74.78%
610184	7.12	7	71,420,878	A	C	484	562	398	383	256	105	50.96%	70.91%
610184	7.12	7	71,433,934	C	G	573	644	360	412	339	141	46.63%	70.62%
610184	7.12	7	71,445,410	G	A	155	162	77	75	336	109	50.66%	75.51%
610184	7.12	7	71,447,250	C	T	82	61	35	36	72	18	49.30%	80.00%
610184	7.12	7	71,459,842	G	T	407	322	478	406	384	86	54.07%	76.76%
610184	7.12	7	71,467,522	C	T	476	394	322	313	222	54	50.79%	80.42%
610184	7.12	7	71,496,103	C	T	373	498	548	502	219	69	52.19%	76.04%
610184	7.12	7	71,501,758	G	A	644	875	809	736	243	91	52.36%	72.75%
610184	7.12	7	71,502,100	T	C	561	630	585	551	135	39	51.50%	77.59%
610184	7.12	7	71,513,641	G	A	360	348	449	353	292	102	55.99%	74.11%
610184	7.12	7	71,527,402	C	T	272	268	231	213	138	56	52.03%	71.13%
610184	7.12	7	71,589,677	G	T	87	23	106	71	68	18	59.89%	79.07%
610184	7.12	7	71,706,071	C	T	379	378	1084	244	426	89	81.63%	82.72%
610184	7.12	7	71,796,149	A	G	658	133	878	224	307	87	79.67%	77.92%
610184	7.12	7	72,046,079	C	G	87	64	11	15	69	23	42.31%	75.00%
610184	7.12	7	72,502,805	G	A	473	386	258	220	334	100	53.97%	76.96%
610184	7.12	7	72,523,746	A	G	175	193	142	163	214	76	46.56%	73.79%
610184	7.12	7	72,542,746	T	C	211	172	202	174	203	87	53.72%	70.00%
610184	7.12	7	72,571,251	T	C	470	415	208	184	489	139	53.66%	77.87%
610184	7.12	7	72,615,834	G	A	377	394	50	51	226	72	49.50%	76.00%
610184	7.12	7	72,621,246	T	A	209	194	23	26	154	54	46.40%	70.54%
610184	7.12	7	72,673,973	C	T	222	261	62	67	241	101	48.06%	70.47%
610184	7.12	7	72,684,694	A	C	452	665	91	72	405	129	55.83%	75.84%
610184	7.12	7	72,684,715	G	A	429	617	89	72	397	130	55.28%	75.33%
610184	7.12	7	72,732,635	G	C	284	267	22	30	179	64	42.31%	73.65%
610184	7.12	7	72,733,506	A	G	409	401	58	50	317	91	53.06%	77.70%
610184	7.12	7	72,738,660	A	G	432	477	45	51	241	74	46.88%	76.51%
610184	7.12	7	72,741,236	C	T	367	376	54	76	226	72	41.54%	75.84%
610184	7.12	7	72,742,783	A	G	704	799	118	137	215	101	46.27%	68.04%
610184	7.12	7	72,742,841	G	T	580	624	114	125	215	80	47.70%	72.88%
610184	7.12	7	72,744,145	G	A	496	478	97	69	129	38	58.43%	77.25%
610184	7.12	7	72,746,246	T	C	1003	1034	160	149	252	96	51.78%	72.41%
610184	7.12	7	72,779,400	T	C	888	963	56	40	165	65	58.33%	71.74%
610184	7.12	7	72,827,487	T	C	297	296	56	42	246	75	57.14%	76.64%
610184	7.12	7	72,853,381	G	A	27	38	9	14	62	13	39.13%	82.67%
610184	7.12	7	72,945,249	C	G	188	239	62	41	295	86	60.19%	77.43%
610184	7.12	7	72,976,329	T	G	84	147	54	71	57	44	43.40%	56.44%
610184	7.12	7	72,977,553	A	G	163	206	123	130	153	71	48.62%	68.30%
610184	7.12	7	72,992,859	A	G	157	183	176	122	142	63	59.06%	69.27%
610184	7.12	7	73,014,103	T	C	205	298	120	124	283	84	49.18%	77.11%
610184	7.12	7	73,083,050	C	T	144	124	18	22	210	75	45.00%	73.68%
610184	7.12	7	73,123,188	G	C	260	212	34	28	228	63	54.84%	78.35%
610184	7.12	7	73,127,579	A	G	109	132	21	20	173	60	51.22%	74.25%
610184	7.12	7	73,131,469	G	A	350	281	51	50	292	97	50.50%	75.06%
610184	7.12	7	73,189,535	C	A	764	874	209	219	273	96	48.83%	73.98%
610184	7.12	7	73,208,188	A	G	497	515	169	128	279	100	56.90%	73.61%
610184	7.12	7	73,217,870	A	G	118	117	27	32	82	31	45.76%	72.57%
610184	7.12	7	73,249,660	G	T	233	265	86	80	281	84	51.81%	76.99%
610184	7.12	7	73,249,678	T	A	226	241	85	83	256	87	50.60%	74.64%
610184	7.12	7	73,301,571	A	C	129	117	39	35	111	31	52.70%	78.17%
610184	7.12	7	73,373,531	C	T	1189	1026	207	179	313	118	53.63%	72.62%
610184	7.12	7	73,378,187	A	G	315	291	91	78	158	48	53.85%	76.70%
610184	7.12	7	73,383,508	T	G	131	29	25	6	107	4	80.65%	96.40%
610184	7.12	7	73,386,094	C	G	367	372	68	71	245	69	48.92%	78.03%
610184	7.12	7	73,387,195	A	G	144	147	28	30	62	30	48.28%	67.39%
610184	7.12	7	73,392,685	G	A	226	195	51	44	250	69	53.68%	78.37%
610184	7.12	7	73,436,215	C	T	216	253	45	43	197	63	51.14%	75.77%
610184	7.12	7	73,446,433	G	C	224	206	79	60	284	77	56.83%	78.67%
610184	7.12	7	73,584,000	A	T	303	220	43	46	134	50	48.31%	72.83%
610184	7.12	7	73,604,887	T	G	310	304	65	76	183	35	46.10%	83.94%
610184	7.12	7	73,643,461	T	A	104	104	49	43	103	31	53.26%	76.87%
610184	7.12	7	73,698,938	C	A	182	1	80	0	62	0	100.00%	100.00%
610184	7.12	7	73,777,847	T	C	86	89	139	151	71	31	47.93%	69.61%
610184	7.12	7	73,777,987	T	C	233	294	338	314	163	56	51.84%	74.43%
610184	7.12	7	74,121,978	T	C	76	78	26	21	82	17	55.32%	82.83%
610184	7.12	7	74,129,259	C	T	700	350	78	66	214	198	54.17%	51.94%
610184	7.12	7	74,129,278	G	C	520	276	60	46	153	143	56.60%	51.69%
610184	7.12	7	74,129,305	G	A	407	190	49	31	117	105	61.25%	52.70%
610184	7.12	7	74,180,761	C	A	76	55	81	40	34	11	66.94%	75.56%
610184	7.12	7	74,923,564	A	G	514	97	298	77	188	24	79.47%	88.68%
610184	7.12	7	74,925,086	A	T	74	18	34	12	42	6	73.91%	87.50%
610184	7.12	7	74,943,849	C	G	399	356	137	150	202	74	47.74%	73.19%
610184	7.12	7	75,055,263	C	T	220	183	58	49	203	54	54.21%	78.99%

610184	7.12	7	75,062,505	C	T	78	52	30	15	36	21	66.67%	63.16%
610184	7.12	7	75,068,328	C	A	154	129	48	40	153	55	54.55%	73.56%
610184	7.12	7	75,070,661	A	C	268	234	76	64	268	82	54.29%	76.57%
610184	7.12	7	75,077,085	G	T	338	400	68	85	108	32	44.44%	77.14%
610184	7.12	7	75,082,653	A	G	193	230	49	29	106	43	62.82%	71.14%
610184	7.12	7	75,089,752	C	T	218	264	53	44	127	40	54.64%	76.05%
610184	7.12	7	75,170,151	G	A	250	240	106	113	145	55	48.40%	72.50%
610184	7.12	7	75,207,251	T	G	312	49	117	19	213	34	86.03%	86.23%
610184	7.12	7	75,226,501	A	G	29	24	19	22	24	7	46.34%	77.42%
610184	7.12	7	75,236,658	A	C	138	151	111	95	97	34	53.88%	74.05%
610184	7.12	7	75,252,263	C	T	48	76	59	69	46	10	46.09%	82.14%
610184	7.12	7	75,252,812	T	C	26	23	59	34	29	7	30.61%	80.56%
610184	7.12	7	75,279,698	C	T	455	474	171	188	284	88	47.63%	76.34%
610184	7.12	7	75,287,277	C	T	512	567	189	215	206	101	46.78%	67.10%
610184	7.12	7	75,310,303	A	T	325	329	157	144	297	97	52.16%	75.38%
610184	7.12	7	75,310,385	A	G	248	202	102	101	209	75	50.25%	73.59%
610184	7.12	7	75,319,759	G	A	350	352	179	131	211	68	57.74%	75.62%
610184	7.12	7	75,324,137	A	G	404	518	244	219	313	103	52.70%	75.24%
610184	7.12	7	75,326,920	T	C	468	501	222	211	199	69	51.37%	74.25%
610184	7.12	7	75,525,962	C	T	428	1	133	0	311	56	100.00%	84.74%
610184	7.12	7	75,551,848	T	C	636	154	196	48	173	121	80.33%	58.84%
610184	7.12	7	75,555,158	T	C	505	538	148	126	218	73	54.01%	74.91%
610184	7.12	7	75,588,847	G	T	177	76	114	61	93	8	65.14%	92.08%
610184	7.12	7	75,676,725	A	G	610	607	62	67	332	95	48.06%	77.75%
610184	7.12	7	75,813,522	C	T	510	491	197	153	374	117	56.39%	76.17%
610184	7.12	7	75,813,713	A	T	471	423	145	145	296	129	48.17%	69.65%
610184	7.12	7	75,813,775	A	G	274	234	124	140	236	87	46.67%	70.87%
610184	7.12	7	75,818,401	C	T	472	492	115	102	311	102	53.00%	75.30%
610184	7.12	7	75,822,653	A	G	277	259	60	63	337	90	48.78%	78.92%
610184	7.12	7	75,823,309	A	G	253	256	58	54	329	116	51.79%	73.93%
610184	7.12	7	75,824,726	T	A	176	157	48	31	279	80	60.76%	77.72%
610184	7.12	7	75,868,803	G	A	69	61	19	20	108	39	48.72%	73.47%
610184	7.12	7	75,874,103	G	C	245	245	63	74	156	51	45.89%	75.36%
610184	7.12	7	75,903,489	A	G	49	25	19	13	31	23	59.38%	57.41%
610184	7.12	7	75,904,056	A	G	498	99	139	37	167	63	83.73%	72.61%
610184	7.12	7	75,940,156	A	G	148	172	35	22	100	44	61.40%	69.44%
610184	7.12	7	76,022,710	A	G	118	110	74	66	122	40	52.86%	75.31%
610184	7.12	7	76,023,580	A	G	98	74	75	50	82	36	60.00%	69.49%
610184	7.12	7	76,036,327	G	A	271	203	146	200	146	39	42.20%	78.92%
610184	7.12	7	76,039,952	G	A	288	254	317	284	299	96	52.75%	75.70%
610184	7.12	7	76,043,827	A	G	158	197	257	259	188	64	48.61%	74.60%
610184	7.12	7	76,049,832	C	T	382	119	740	196	223	110	70.93%	66.97%
610184	7.12	7	76,049,858	A	C	386	179	811	322	230	172	71.58%	57.21%
610184	7.12	7	76,052,733	G	A	365	341	490	457	175	71	51.74%	71.14%
610184	7.12	7	76,055,092	T	C	80	65	125	112	36	10	52.74%	78.70%
610184	7.12	7	76,056,651	T	A	200	164	321	244	144	61	56.81%	70.24%
610184	7.12	7	76,057,489	G	A	209	110	266	158	175	36	62.74%	82.94%
610184	7.12	7	76,135,024	A	T	136	8	205	15	106	5	93.8%	95.50%
610184	7.12	7	76,159,007	C	T	120	119	158	134	72	20	54.11%	78.26%
610184	7.12	7	76,171,603	G	A	142	134	275	244	264	86	52.99%	75.43%
610184	7.12	7	76,177,900	T	G	150	135	211	209	165	60	50.24%	73.33%
610184	7.12	7	76,203,160	T	C	147	31	160	34	55	24	82.47%	69.62%
610184	7.12	7	76,204,171	G	A	59	44	70	62	100	29	53.03%	77.52%
610184	7.12	7	76,222,445	A	G	482	601	435	453	306	115	48.99%	72.68%
610184	7.12	7	76,262,998	C	T	482	373	432	300	420	85	59.02%	83.17%
610184	7.12	7	76,279,334	A	C	348	377	407	397	257	93	50.62%	73.43%
610184	7.12	7	76,315,042	G	A	93	149	108	208	84	74	34.18%	53.16%
610184	7.12	7	76,325,315	G	C	192	388	280	405	154	74	40.88%	67.54%
610184	7.12	7	76,368,114	A	G	138	128	163	193	126	66	45.79%	65.63%
610184	7.12	7	76,383,384	T	C	212	202	319	310	184	43	50.72%	81.06%
610184	7.12	7	76,413,336	A	T	78	55	75	36	135	20	67.57%	87.10%
610184	7.12	7	76,453,480	T	A	190	157	23	19	163	124	54.76%	56.79%
610184	7.12	7	76,560,279	A	G	108	69	183	51	65	58	78.21%	52.85%
610184	7.12	7	76,561,426	C	T	123	43	206	34	65	58	85.83%	52.85%
610184	7.12	7	76,622,370	C	T	389	293	421	362	263	82	53.77%	76.23%
610184	7.12	7	76,625,634	C	T	50	24	38	38	18	6	50.00%	75.00%
610184	7.12	7	76,746,626	T	C	274	361	296	277	166	47	51.66%	77.93%
610184	7.12	7	76,751,531	C	T	421	490	442	452	222	86	49.44%	72.08%
610184	7.12	7	76,891,020	C	T	228	245	148	144	161	66	50.88%	70.93%
610184	7.12	7	76,894,395	G	A	202	223	167	181	256	128	47.99%	66.67%
610184	7.12	7	76,913,233	C	T	382	388	469	506	177	71	48.10%	71.37%
610184	7.12	7	76,913,247	A	G	343	357	432	484	164	73	47.16%	69.20%
610184	7.12	7	76,915,058	A	G	426	443	482	554	310	125	46.53%	71.26%
610184	7.12	7	76,928,894	A	G	152	175	329	323	288	93	50.46%	75.59%
610184	7.12	7	77,189,641	G	T	326	310	499	448	214	83	52.69%	72.05%
610184	7.12	7	77,363,135	T	C	388	325	407	333	238	75	55.00%	76.04%
610184	7.12	7	77,485,258	T	C	150	190	106	91	278	102	53.81%	73.16%
610184	7.12	7	77,926,818	G	A	314	350	300	270	224	82	52.63%	73.20%
610184	7.12	7	77,957,045	T	C	280	403	476	450	339	138	51.40%	71.07%
610184	7.12	7	77,963,897	T	C	319	367	325	334	276	88	49.32%	75.82%
610184	7.12	7	78,312,370	A	G	458	415	419	373	184	63	52.90%	74.49%
610184	7.12	7	79,007,593	C	G	544	529	411	463	324	116	47.03%	73.64%
610184	7.12	7	79,338,277	A	T	209	262	405	364	200	85	52.67%	70.18%
610184	7.12	7	79,467,944	T	G	81	99	72	97	54	30	42.60%	64.29%
610184	7.12	7	79,871,725	C	A	464	499	698	734	333	120	48.74%	73.51%
610184	7.12	7	80,130,385	G	A	240	275	292	251	185	76	53.78%	70.88%
610184	7.12	7	80,436,064	G	C	250	250	175	139	207	70	55.73%	74.73%
610184	7.12	7	80,667,568	C	T	429	520	460	459	366	123	50.05%	74.85%
610184	7.12	7	80,930,312	C	T	603	768	447	474	370	137	48.53%	72.98%
610184	7.12	7	81,391,718	T	C	232	205	221	198	202	57	52.74%	77.99%
610184	7.12	7	81,436,419	A	T	251	298	220	172	253	100	56.12%	71.67%
610184	7.12	7	81,581,377	C	T	49	41	75	68	60	17	52.45%	77.92%
610184	7.12	7	81,633,756	C	G	299	208	275	239	75	99	49.82%	76.11%
610184	7.12	7	81,714,838	C	T	500	441	476	404	230	99	54.09%	69.91%

610184	7.13	7	81,830,278	A	G	340	291	342	350	258	89	49.42%	74.35%
610184	7.13	7	81,896,809	T	G	502	552	324	308	298	111	51.27%	72.86%
610184	7.13	7	81,907,578	C	A	97	61	54	33	77	22	62.07%	77.78%
610184	7.13	7	82,037,410	T	C	301	249	232	315	122	65	42.41%	65.24%
610184	7.13	7	82,264,235	A	C	222	213	241	248	249	83	49.28%	75.00%
610184	7.13	7	82,377,142	A	C	82	99	202	223	47	20	47.53%	70.15%
610184	7.13	7	82,522,051	C	T	304	309	319	294	239	83	52.04%	74.22%
610184	7.13	7	82,633,033	T	C	190	148	126	94	232	87	57.77%	72.73%
610184	7.13	7	82,674,336	C	T	89	76	137	117	211	70	53.94%	75.09%
610184	7.13	7	82,736,975	A	G	155	174	196	227	128	63	46.34%	67.02%
610184	7.13	7	83,050,128	T	C	31	45	69	70	33	5	49.64%	86.84%
610184	7.13	7	83,099,670	G	A	112	136	124	139	114	107	47.15%	51.58%
610184	7.13	7	83,111,711	T	A	289	296	299	293	172	48	50.51%	78.18%
610184	7.13	7	83,125,543	A	G	248	258	180	203	214	63	47.00%	77.26%
610184	7.13	7	83,135,568	T	A	57	50	19	15	38	21	55.88%	64.41%
610184	7.13	7	83,136,139	C	T	81	84	24	30	67	17	44.44%	79.76%
610184	7.13	7	83,136,719	A	G	180	125	68	42	194	64	61.82%	75.19%
610184	7.13	7	83,138,483	A	T	73	56	35	28	102	35	55.56%	74.45%
610184	7.14	7	86,110,719	G	C	73	67	49	81	138	36	37.69%	79.21%
610184	7.14	7	87,964,607	G	A	313	249	338	281	251	73	54.60%	77.47%
610184	7.14	7	88,224,237	C	A	319	246	210	213	229	64	49.65%	78.16%
610184	7.14	7	88,261,817	T	C	418	349	519	484	283	87	51.74%	76.49%
610184	7.14	7	88,470,991	T	C	435	391	500	474	295	96	51.33%	75.45%
610184	7.14	7	88,592,399	G	A	223	193	242	235	149	62	50.73%	70.62%
610184	7.14	7	88,794,635	A	G	200	208	268	286	195	56	48.38%	77.69%
610184	7.14	7	89,001,421	A	G	477	650	432	526	192	77	45.09%	71.48%
610184	7.14	7	89,495,236	A	G	280	410	580	656	211	74	47.35%	74.04%
610184	7.14	7	89,592,763	A	C	52	39	36	42	36	8	46.15%	81.82%
610184	7.14	7	89,694,544	C	T	291	344	198	207	322	125	48.89%	72.04%
610184	7.14	7	89,699,768	G	A	205	227	168	117	235	83	58.95%	73.90%
610184	7.14	7	89,747,378	G	A	172	123	298	233	178	70	56.12%	71.77%
610184	7.14	7	89,750,237	G	A	228	193	296	280	223	70	51.39%	76.11%
610184	7.14	7	89,776,616	C	T	177	134	127	103	118	26	55.22%	81.94%
610184	7.15	7	95,138,692	A	G	266	268	367	345	129	56	51.54%	69.73%
610184	7.15	7	95,338,893	A	G	212	221	240	240	219	58	50.80%	79.05%
610184	7.15	7	95,367,881	T	C	423	343	288	233	250	78	55.28%	76.58%
610184	7.15	7	95,429,277	A	G	1015	872	605	518	384	153	53.87%	71.51%
610184	7.15	7	95,437,081	T	C	736	605	580	557	342	107	51.01%	76.17%
610184	7.15	7	95,504,811	A	G	469	473	289	217	344	108	57.11%	76.11%
610184	7.15	7	95,889,766	A	G	300	264	266	302	297	112	46.83%	72.62%
610184	7.15	7	95,949,277	A	G	328	291	614	628	327	103	49.44%	76.05%
610184	7.15	7	96,240,903	G	A	454	442	371	333	234	72	52.77%	76.47%
610184	7.15	7	96,497,589	G	A	326	280	88	104	254	89	45.83%	74.05%
610184	7.15	7	96,571,993	A	G	209	249	122	108	312	96	53.04%	76.47%
610184	7.15	7	96,644,065	A	G	136	123	194	119	70	16	61.98%	81.40%
610184	7.15	7	96,766,027	G	A	375	400	371	318	233	82	53.85%	73.97%
610184	7.15	7	97,035,474	A	G	310	276	327	277	250	73	49.14%	77.40%
610184	7.15	7	97,260,131	C	T	399	413	501	489	210	77	50.91%	73.99%
610184	7.15	7	97,260,440	T	C	365	422	435	512	204	67	45.93%	75.28%
610184	7.15	7	97,263,657	T	C	419	426	457	499	345	106	47.90%	76.50%
610184	7.15	7	97,265,362	A	C	376	419	489	510	374	160	48.95%	70.04%
610184	7.15	7	97,269,528	T	C	52	74	78	85	67	17	47.85%	79.76%
610184	7.15	7	97,269,727	G	C	216	263	253	257	231	69	49.61%	77.00%
610184	7.15	7	97,298,887	G	A	403	432	387	373	331	103	50.92%	76.27%
610184	7.15	7	97,304,468	G	T	455	471	287	288	352	113	49.91%	75.70%
610184	7.15	7	97,307,554	A	G	765	211	152	161	254	94	48.56%	72.99%
610184	7.15	7	97,325,282	G	A	223	235	100	66	235	70	60.24%	77.05%
610184	7.15	7	97,325,907	C	T	231	251	80	61	270	100	56.74%	72.97%
610184	7.15	7	97,328,016	G	A	262	252	78	63	226	73	55.32%	75.59%
610184	7.15	7	97,333,377	T	C	178	183	94	86	202	69	52.22%	74.54%
610184	7.15	7	97,333,407	C	T	130	151	70	70	161	48	50.00%	77.03%
610184	7.15	7	97,368,185	A	G	227	99	148	59	101	22	71.50%	82.11%
610184	7.15	7	97,374,119	A	G	52	0	28	0	68	0	100.00%	100.00%
610184	7.15	7	97,379,341	C	T	97	13	38	4	128	3	90.48%	97.71%
610184	7.15	7	97,448,658	A	G	151	254	94	171	75	45.66%	69.51%	
610184	7.15	7	97,449,795	G	A	278	342	141	134	216	83	51.27%	72.24%
610184	7.15	7	97,449,873	A	G	188	231	81	108	155	54	42.86%	74.16%
610184	7.15	7	97,451,707	G	C	266	279	116	110	120	56	51.33%	68.18%
610184	7.15	7	97,474,928	C	T	307	465	148	189	378	139	43.92%	73.11%
610184	7.15	7	97,491,747	G	T	365	447	104	115	176	62	47.49%	73.95%
610184	7.15	7	97,621,303	A	T	241	235	163	155	117	59	51.26%	66.48%
610184	7.15	7	97,654,574	G	C	466	431	173	181	199	74	48.87%	72.89%
610184	7.15	7	97,660,164	G	A	148	132	85	91	264	79	48.30%	76.97%
610184	7.15	7	97,787,586	G	A	244	251	138	148	184	50	48.25%	78.63%
610184	7.15	7	97,788,556	A	G	402	309	183	162	299	91	53.04%	76.67%
610184	7.15	7	97,825,922	T	C	305	281	280	235	226	74	54.37%	75.33%
610184	7.15	7	97,830,193	A	G	162	200	108	102	95	27	51.43%	77.87%
610184	7.15	7	97,840,597	G	T	229	240	178	145	278	63	55.11%	81.52%
610184	7.15	7	97,843,334	T	C	387	340	180	136	272	83	56.96%	76.62%
610184	7.15	7	97,854,353	C	A	162	165	63	55	337	103	53.39%	76.59%
610184	7.15	7	97,865,242	T	C	124	105	26	34	244	65	43.33%	78.96%
610184	7.15	7	97,865,554	T	C	59	62	10	13	139	45	43.48%	75.54%
610184	7.15	7	97,920,553	T	A	492	34	216	20	299	15	91.53%	95.22%
610184	7.15	7	97,920,570	G	A	496	38	219	17	298	18	92.80%	94.30%
610184	7.15	7	97,920,571	C	A	492	38	221	17	302	19	92.86%	94.08%
610184	7.15	7	97,920,765	T	C	207	236	86	67	139	42	56.21%	76.80%
610184	7.15	7	97,923,843	A	G	594	688	205	207	195	64	49.76%	75.29%
610184	7.15	7	98,091,783	C	G	126	133	60	52	251	63	53.57%	79.94%
610184	7.15	7	98,159,798	C	T	484	410	324	247	230	74	56.74%	75.66%
610184	7.15	7	98,180,883	A	T	405	306	302	289	249	76	51.10%	76.62%
610184	7.15	7	98,628,586	G	T	53	227	53	121	69	61	30.46%	53.08%
610184	7.15	7	99,149,937	T	C	402	402	837	848	369	112	49.67%	76.72%
610184	7.15	7	99,328,126	G	A	842	856	338	354	450	118	48.84%	79.23%
610184	7.15	7	99,338,847	A	G	425	398	166	139	387	128	54.43%	75.15%
610184	7.15	7	99,356,207	C	A	315	273	86	95	211	69	47.51%	75.36%

610184	7.15	7	99,391,103	C	G	828	750	426	420	298	98	50.35%	75.25%
610184	7.15	7	99,473,903	G	A	228	231	100	105	290	101	48.78%	74.17%
610184	7.15	7	99,531,014	G	A	583	486	72	94	223	66	43.37%	77.16%
610184	7.15	7	99,539,576	T	C	123	131	19	15	274	78	55.88%	77.84%
610184	7.15	7	99,542,732	A	T	184	194	28	31	317	96	47.46%	76.76%
610184	7.15	7	99,764,458	G	A	125	173	78	115	124	53	40.41%	70.06%
610184	7.15	7	99,838,210	A	C	293	351	426	419	241	96	50.41%	71.51%
610184	7.15	7	99,946,279	C	A	194	61	58	22	73	15	72.50%	82.95%
610184	7.15	7	99,946,296	G	A	400	71	96	16	122	39	85.71%	75.78%
610184	7.15	7	99,963,101	A	G	266	233	75	57	238	78	56.82%	75.32%
610184	7.15	7	100,064,348	T	A	307	311	54	91	32	50.00%	73.98%	
610184	7.15	7	100,240,478	T	C	738	842	113	133	190	61	45.93%	75.70%
610184	7.15	7	100,387,633	A	G	313	128	256	62	352	124	80.50%	73.95%
610184	7.15	7	100,387,639	C	T	306	128	256	61	344	126	80.76%	73.19%
610184	7.15	7	100,388,015	A	C	128	152	110	76	253	120	59.14%	67.83%
610184	7.15	7	100,389,397	C	G	231	21	41	1	376	14	97.62%	96.41%
610184	7.15	7	100,389,501	A	G	159	32	50	2	339	36	96.15%	90.40%
610184	7.15	7	100,389,628	C	T	162	16	54	4	311	23	93.10%	93.11%
610184	7.15	7	100,389,954	T	G	122	104	23	15	229	149	60.53%	60.58%
610184	7.15	7	100,390,030	G	C	81	86	18	16	159	125	52.94%	55.99%
610184	7.15	7	100,390,247	C	T	147	76	27	8	238	130	77.14%	64.67%
610184	7.15	7	100,390,274	C	T	173	55	31	6	260	89	83.78%	74.50%
610184	7.15	7	100,390,472	T	C	97	32	23	7	198	39	76.67%	83.54%
610184	7.15	7	100,390,485	C	A	92	33	20	4	191	38	83.33%	84.41%
610184	7.15	7	100,390,914	T	C	145	118	32	23	226	158	58.18%	58.85%
610184	7.15	7	100,390,938	A	G	149	125	41	30	234	175	57.75%	57.21%
610184	7.15	7	100,702,385	T	C	423	580	148	155	296	88	48.84%	75.12%
610184	7.15	7	100,707,937	T	C	98	115	46	47	62	24	49.46%	72.09%
610184	7.15	7	100,771,997	T	C	168	194	21	28	68	67	42.86%	50.37%
610184	7.15	7	100,795,820	G	C	178	170	72	37	186	67	66.06%	73.52%
610184	7.15	7	100,795,943	A	C	198	209	54	51	203	63	51.43%	76.32%
610184	7.15	7	100,796,993	T	C	613	560	178	99	425	144	64.26%	74.69%
610184	7.15	7	100,797,981	C	T	613	550	161	106	313	91	60.30%	77.48%
610184	7.15	7	100,799,187	C	T	241	198	77	46	132	31	62.60%	80.88%
610184	7.15	7	100,802,535	G	A	516	583	177	139	335	101	56.61%	76.83%
610184	7.15	7	100,835,554	A	T	1104	1320	339	365	494	158	48.15%	75.77%
610184	7.15	7	100,844,213	A	C	859	647	328	274	285	100	54.49%	74.03%
610184	7.15	7	100,852,051	G	A	152	169	89	90	205	67	49.72%	75.37%
610184	7.15	7	101,001,963	G	T	284	257	160	181	221	63	66.92%	77.82%
610184	7.15	7	101,010,148	A	G	482	425	169	137	388	109	55.23%	78.07%
610184	7.15	7	101,071,192	A	G	305	254	62	64	273	96	49.21%	73.98%
610184	7.15	7	101,447,657	G	T	344	317	172	185	282	87	48.04%	76.42%
610184	7.15	7	101,448,146	G	A	499	613	201	208	227	80	49.14%	73.94%
610184	7.15	7	101,472,698	G	C	317	310	169	153	245	64	52.48%	79.29%
610184	7.15	7	101,474,711	T	G	428	410	206	183	338	107	53.33%	79.95%
610184	7.15	7	101,524,047	G	T	183	173	92	104	255	67	46.94%	79.19%
610184	7.15	7	101,524,408	T	A	121	143	152	78	203	72	50.00%	73.82%
610184	7.15	7	101,524,946	T	C	139	160	93	101	219	82	47.94%	72.76%
610184	7.15	7	101,531,991	A	G	357	296	73	79	219	70	48.93%	75.79%
610184	7.15	7	101,545,304	A	G	377	262	89	103	381	124	46.35%	75.90%
610184	7.15	7	101,567,191	C	T	427	488	156	223	246	114	41.16%	68.33%
610184	7.15	7	101,588,235	T	A	197	248	147	157	243	79	48.36%	75.47%
610184	7.15	7	101,633,618	G	A	152	143	27	23	239	110	54.00%	68.48%
610184	7.15	7	101,655,389	T	G	489	128	71	19	267	152	78.89%	63.72%
610184	7.15	7	101,672,779	C	A	143	166	31	31	237	67	50.00%	77.96%
610184	7.15	7	101,679,553	C	T	148	149	40	33	160	66	54.79%	70.80%
610184	7.15	7	101,804,362	C	T	352	266	171	139	217	75	55.16%	74.32%
610184	7.15	7	102,016,341	A	G	155	190	17	36	100	96	32.08%	51.02%
610184	7.15	7	102,054,326	G	A	160	96	16	13	21	5	55.17%	80.77%
610184	7.16	7	104,491,138	C	T	332	331	380	399	363	113	48.78%	76.26%
610184	7.16	7	104,545,486	T	C	204	204	197	176	294	99	52.82%	74.81%
610184	7.16	7	104,759,084	A	G	136	149	172	173	86	30	49.86%	74.14%
610184	7.16	7	104,950,393	T	C	528	433	142	132	330	91	51.82%	78.38%
610184	7.16	7	104,957,806	A	G	231	130	96	50	179	39	65.75%	82.11%
610184	7.16	7	104,964,277	A	T	308	280	175	132	327	97	57.00%	77.12%
610184	7.16	7	105,009,817	G	A	193	68	70	155	48	49.28%	76.35%	
610184	7.16	7	105,113,408	T	C	274	637	221	233	227	80	48.68%	73.94%
610184	7.16	7	105,147,257	A	C	283	263	176	186	252	96	48.82%	72.41%
610184	7.16	7	105,189,086	G	T	960	59	690	38	349	91	94.78%	79.32%
610184	7.16	7	105,195,390	A	G	231	209	340	369	231	90	47.95%	71.96%
610184	7.16	7	106,070,196	T	G	308	340	232	221	298	100	51.21%	74.87%
610184	7.16	7	106,230,732	T	C	488	349	366	370	388	135	49.73%	74.19%
610184	7.16	7	106,445,196	A	G	296	316	155	174	215	87	47.11%	71.19%
610184	7.16	7	106,611,695	T	C	232	255	284	288	268	75	49.65%	78.13%
610184	7.16	7	106,990,501	G	D	321	314	196	152	273	85	56.32%	76.26%
610184	7.16	7	107,115,551	G	A	524	595	316	275	369	144	53.47%	71.93%
610184	7.16	7	107,174,046	C	T	329	329	263	190	265	93	58.06%	74.02%
610184	7.16	7	107,517,270	T	C	528	507	460	430	431	143	51.69%	75.09%
610184	7.16	7	107,660,052	A	G	413	416	344	311	320	95	52.52%	77.11%
610184	7.16	7	107,869,203	A	T	234	234	258	403	356	132	53.10%	73.96%
610184	7.16	7	107,999,589	G	A	208	221	148	122	265	124	54.81%	68.12%
610184	7.16	7	108,012,283	C	T	345	345	540	523	316	101	50.80%	75.78%
610184	7.16	7	108,264,451	C	T	404	332	480	416	255	72	53.57%	77.98%
610184	7.16	7	108,338,136	C	G	234	269	475	477	275	84	49.89%	76.60%
610184	7.16	7	108,340,208	C	G	199	238	460	518	131	44	47.03%	74.86%
610184	7.16	7	108,432,175	T	C	424	341	362	318	302	104	53.24%	74.38%
610184	7.16	7	108,669,607	T	A	234	317	288	352	125	46	45.00%	73.10%
610184	7.16	7	108,708,103	A	G	314	386	539	505	179	70	51.63%	71.89%
610184	7.16	7	108,755,871	A	G	690	512	573	427	205	89	57.30%	69.73%
610184	7.17	7	109,084,271	C	T	205	211	388	350	161	63	52.57%	71.88%
610184	7.17	7	109,091,652	T	C	69	66	116	100	44	22	53.70%	66.67%
610184	7.17	7	109,101,812	T	A	263	256	395	348	177	51	53.16%	77.63%
610184	7.17	7	109,107,969	C	T	162	166	254	232	191	57	52.26%	77.02%
610184	7.17	7	109,109,879	C	A	209	146	271	258	192	65	51.23%	74.71%
610184	7.17	7	109,131,783	A	G	760	679	783	784	290	101	49.97%	74.17%

610184	7.17	7	109,136,243	A	C	440	379	541	501	202	64	51.92%	75.94%
610184	7.17	7	109,138,594	T	A	54	52	76	82	29	8	48.10%	78.38%
610184	7.17	7	109,142,935	T	G	265	283	322	312	150	52	50.79%	74.26%
610184	7.17	7	109,143,975	T	G	288	254	366	332	243	84	52.44%	74.31%
610184	7.17	7	109,164,304	A	C	266	277	427	399	230	111	51.69%	67.45%
610184	7.17	7	109,179,695	T	C	213	249	356	324	282	106	52.35%	72.68%
610184	7.17	7	109,190,766	G	T	135	116	171	150	96	35	53.27%	73.28%
610184	7.17	7	109,199,024	T	C	551	567	572	551	349	132	50.93%	72.56%
610184	7.17	7	109,211,065	A	G	508	510	491	520	297	113	48.57%	72.44%
610184	7.17	7	109,252,274	C	T	162	199	205	233	235	73	46.80%	76.30%
610184	7.17	7	109,252,578	G	A	156	130	227	194	168	59	53.92%	74.01%
610184	7.17	7	109,482,043	A	T	561	535	373	328	250	62	53.21%	80.13%
610184	7.17	7	109,609,164	T	C	567	488	625	543	365	135	53.51%	73.00%
610184	7.17	7	109,711,651	G	A	587	611	474	482	298	125	49.58%	70.45%
610184	7.17	7	109,887,088	T	A	298	311	235	174	139	47	57.46%	74.73%
610184	7.17	7	110,131,796	C	T	295	298	547	522	378	121	51.17%	75.75%
610184	7.17	7	110,191,282	T	C	401	357	555	539	242	78	50.73%	75.62%
610184	7.17	7	110,394,098	G	T	235	260	294	272	159	77	51.94%	67.37%
610184	7.17	7	110,419,865	T	C	98	91	122	129	49	17	48.61%	74.24%
610184	7.17	7	110,509,718	G	A	305	267	334	272	319	93	55.12%	77.43%
610184	7.17	7	110,627,103	A	C	319	328	322	282	102	102	50.08%	73.44%
610184	7.17	7	110,747,117	T	C	241	201	331	282	83	31	54.00%	72.81%
610184	7.17	7	110,978,436	T	C	301	364	227	233	227	80	49.35%	73.94%
610184	7.17	7	111,104,617	G	A	177	171	193	158	188	55	54.99%	77.37%
610184	7.18	7	111,619,924	A	G	364	387	265	264	204	80	50.09%	71.82%
610184	7.18	7	113,670,767	T	C	279	320	328	296	248	93	52.56%	72.73%
610184	7.18	7	113,709,200	C	A	256	443	307	270	259	96	53.21%	72.96%
610184	7.18	7	113,843,291	C	G	232	320	254	237	128	50	51.73%	71.91%
610184	7.18	7	113,858,271	C	T	130	123	303	204	186	43	50.76%	81.22%
610184	7.18	7	113,872,403	G	A	266	306	419	447	203	63	48.38%	76.32%
610184	7.18	7	113,930,643	C	T	153	165	189	157	78	24	54.62%	76.47%
610184	7.18	7	114,082,178	T	C	123	155	179	174	173	59	50.71%	74.57%
610184	7.18	7	114,083,781	C	A	278	267	254	288	325	102	46.86%	76.11%
610184	7.18	7	114,089,805	T	C	132	175	155	179	152	77	46.41%	66.38%
610184	7.18	7	114,090,425	A	G	116	161	167	176	106	41	48.69%	72.11%
610184	7.18	7	114,091,060	A	G	230	219	195	174	161	48	52.85%	77.03%
610184	7.18	7	114,142,696	T	C	256	260	343	357	167	56	49.00%	74.89%
610184	7.18	7	114,168,179	T	A	280	297	455	412	365	81	52.48%	76.59%
610184	7.18	7	114,450,398	G	C	246	202	344	389	197	64	46.93%	75.48%
610184	7.19	7	115,226,580	A	G	446	447	175	171	257	71	50.58%	78.35%
610184	7.19	7	115,228,537	G	T	362	411	200	231	130	43	46.40%	75.14%
610184	7.19	7	115,231,368	T	C	397	423	280	314	233	64	47.14%	78.45%
610184	7.19	7	115,236,765	T	C	217	244	247	299	224	84	48.67%	72.93%
610184	7.19	7	115,342,610	T	C	264	345	235	279	136	50	45.72%	73.12%
610184	7.19	7	115,551,956	G	A	202	162	384	276	202	64	58.18%	73.94%
610184	7.19	7	115,553,264	C	T	237	185	385	334	206	77	53.55%	72.79%
610184	7.19	7	115,555,343	T	G	158	154	335	288	223	62	53.77%	78.25%
610184	7.19	7	115,586,970	T	C	206	260	400	386	200	58	50.59%	75.32%
610184	7.19	7	115,596,028	T	C	524	515	491	473	337	124	50.93%	73.10%
610184	7.19	7	115,598,724	T	C	344	356	407	393	197	75	50.94%	72.43%
610184	7.19	7	115,599,167	A	C	220	222	201	190	160	64	51.41%	71.43%
610184	7.19	7	115,599,300	A	G	290	271	288	322	239	96	47.21%	71.34%
610184	7.19	7	115,594,780	G	A	244	239	256	247	217	66	50.89%	76.68%
610184	7.19	7	115,615,002	A	C	296	209	356	253	199	52	58.46%	79.28%
610184	7.19	7	115,641,850	C	T	152	155	266	247	156	58	51.85%	72.64%
610184	7.19	7	115,643,075	C	T	64	49	112	124	54	16	47.46%	77.14%
610184	7.19	7	115,645,541	G	A	423	378	739	678	328	100	52.15%	76.64%
610184	7.19	7	115,649,674	G	A	317	250	258	277	305	109	48.22%	73.67%
610184	7.19	7	115,680,609	I	C	222	219	415	390	291	99	51.55%	74.62%
610184	7.19	7	115,632,107	T	C	335	395	116	145	223	91	44.44%	71.02%
610184	7.19	7	115,637,318	T	C	331	327	134	109	348	112	55.14%	75.65%
610184	7.19	7	115,640,082	G	A	337	303	90	98	174	71	47.87%	71.02%
610184	7.19	7	115,659,641	T	C	213	199	462	401	238	78	53.53%	75.32%
610184	7.19	7	115,668,915	A	G	236	203	365	334	222	59	52.22%	79.00%
610184	7.19	7	115,706,479	A	T	210	209	237	215	168	45	52.43%	78.87%
610184	7.19	7	115,707,175	T	C	303	280	332	344	264	80	49.11%	76.74%
610184	7.19	7	115,738,982	G	A	556	475	653	522	242	77	55.57%	75.86%
610184	7.19	7	115,767,955	C	G	832	15	946	15	248	57	98.44%	81.31%
610184	7.19	7	115,853,669	C	A	309	237	406	400	164	49	50.37%	77.00%
610184	7.19	7	115,897,149	A	C	614	618	278	276	338	93	50.18%	78.42%
610184	7.19	7	115,904,171	T	C	539	567	396	331	326	113	54.47%	74.26%
610184	7.19	7	115,936,136	C	A	351	273	138	95	264	62	59.23%	80.98%
610184	7.19	7	115,951,190	A	G	173	182	82	66	190	55	55.41%	77.55%
610184	7.19	7	115,954,680	A	T	305	312	122	105	293	115	53.74%	71.81%
610184	7.19	7	115,979,566	C	T	254	222	297	304	382	99	49.42%	79.42%
610184	7.19	7	115,980,467	C	G	117	102	167	159	143	52	51.23%	73.33%
610184	7.19	7	115,981,464	T	A	185	141	251	190	274	89	56.92%	75.48%
610184	7.19	7	115,981,620	C	T	155	138	228	169	208	75	57.43%	73.50%
610184	7.19	7	116,260,389	C	T	324	343	295	273	318	97	51.94%	76.63%
610184	7.19	7	116,404,768	A	G	259	283	219	246	179	77	47.10%	69.92%
610184	7.20	7	118,079,211	C	T	522	475	442	392	288	99	53.00%	74.42%
610184	7.20	7	118,334,993	T	C	176	171	157	189	139	39	45.38%	78.09%
610184	7.20	7	119,240,766	G	T	429	395	269	271	156	51	49.81%	75.36%
610184	7.20	7	120,124,433	T	G	303	274	330	291	198	63	53.14%	75.86%
610184	7.20	7	120,398,137	C	T	379	352	218	207	297	80	51.29%	78.78%
610184	7.20	7	120,551,713	C	G	232	226	226	246	162	62	47.88%	72.32%
610184	7.20	7	120,563,333	G	C	84	110	111	136	53	24	44.94%	68.83%
610184	7.20	7	120,828,581	C	A	117	137	54	62	57	28	46.55%	67.06%
610184	7.20	7	121,383,829	G	A	161	221	168	176	118	39	48.84%	75.16%
610184	7.20	7	122,091,980	A	G	513	486	284	242	172	75	53.99%	69.64%
610184	7.20	7	123,398,744	G	T	539	502	376	369	259	82	50.47%	75.95%
610184	7.20	7	122,701,479	G	A	217	249	238	244	183	55	49.38%	76.89%
610184	7.20	7	123,089,176	G	A	446	499	388	376	187	70	50.79%	72.76%
610184	7.20	7	123,479,961	T	C	208	209	186	200	155	54	48.19%	74.16%
610184	7.21	7	126,479,701	G	A	337	423	496	485	216	76	50.56%	73.97%

610184	7.21	7	126,480,409	G	A	400	389	603	452	267	96	57.16%	73.55%
610184	7.21	7	126,484,991	G	A	247	184	309	235	98	20	56.80%	83.05%
610184	7.21	7	126,536,076	T	C	568	507	303	303	240	85	50.00%	73.85%
610184	7.21	7	126,565,192	C	T	421	411	476	467	303	110	50.48%	73.37%
610184	7.21	7	126,579,400	G	A	472	379	389	359	275	79	52.01%	77.68%
610184	7.21	7	126,745,482	C	T	226	253	312	333	150	50	48.37%	75.00%
610184	7.21	7	126,792,254	A	T	612	617	464	540	393	120	46.22%	76.61%
610184	7.21	7	126,794,232	G	A	342	384	360	370	284	111	49.32%	71.90%
610184	7.21	7	126,811,293	C	T	134	117	108	84	44	44	56.25%	65.63%
610184	7.21	7	127,078,769	G	C	818	857	335	340	299	103	49.63%	74.38%
610184	7.21	7	127,700,467	G	C	129	135	49	59	207	88	45.37%	70.17%
610184	7.21	7	127,896,152	C	T	274	276	98	97	262	100	50.26%	72.38%
610184	7.21	7	127,906,358	A	G	124	129	86	87	141	45	49.71%	75.81%
610184	7.21	7	127,910,687	A	G	192	169	101	101	150	59	50.00%	71.77%
610184	7.21	7	127,957,563	G	A	59	73	44	58	132	58	43.14%	69.47%
610184	7.21	7	127,960,956	G	A	122	163	116	88	205	85	56.86%	70.69%
610184	7.21	7	127,967,192	A	G	124	166	87	119	104	34	42.23%	75.36%
610184	7.21	7	127,998,025	G	A	134	94	84	75	122	38	52.83%	76.25%
610184	7.21	7	128,024,738	A	G	159	43	192	67	197	79	74.13%	71.38%
610184	7.21	7	128,095,368	T	C	169	151	94	103	107	37	47.72%	74.31%
610184	7.21	7	128,119,957	T	C	307	325	132	117	309	101	53.01%	75.37%
610184	7.21	7	128,167,231	A	G	211	217	108	66	274	85	62.07%	76.32%
610184	7.21	7	128,198,658	C	T	446	439	183	159	233	67	53.51%	77.67%
610184	7.21	7	128,209,853	C	G	453	420	131	124	380	123	51.37%	75.55%
610184	7.22	7	128,692,037	C	T	184	132	212	219	138	28	49.19%	83.13%
610184	7.22	7	128,694,154	A	G	315	300	363	327	184	70	52.61%	72.44%
610184	7.22	7	128,748,820	G	T	71	9	138	23	39	5	85.23%	88.64%
610184	7.22	7	128,781,860	A	C	422	327	384	324	367	121	54.24%	75.20%
610184	7.22	7	128,800,179	T	A	80	86	214	161	96	31	57.07%	75.59%
610184	7.22	7	128,816,612	C	T	232	207	260	230	175	57	53.06%	75.43%
610184	7.22	7	128,820,977	A	G	395	424	255	352	205	81	42.01%	71.68%
610184	7.22	7	128,842,117	G	A	244	214	199	197	186	64	50.25%	74.40%
610184	7.22	7	128,847,232	C	T	559	475	449	367	327	88	55.02%	78.80%
610184	7.22	7	128,853,158	C	G	381	414	280	232	321	107	54.69%	75.00%
610184	7.22	7	128,863,320	C	T	466	396	272	232	203	59	55.66%	77.48%
610184	7.22	7	128,893,682	G	A	42	30	33	37	45	13	55.00%	77.59%
610184	7.22	7	129,190,610	T	C	244	236	72	80	302	88	47.37%	77.44%
610184	7.22	7	129,485,891	A	G	214	245	205	166	242	107	55.26%	69.34%
610184	7.22	7	129,857,845	A	G	153	181	164	144	159	63	53.35%	71.62%
610184	7.22	7	130,250,670	C	T	259	249	383	414	283	94	48.06%	75.07%
610184	7.22	7	130,650,754	A	G	165	164	181	163	169	51	52.62%	76.82%
610184	7.22	7	130,642,233	C	T	204	205	114	94	294	96	54.81%	75.38%
610184	7.22	7	130,843,040	G	A	142	126	96	57	203	64	62.75%	76.03%
610184	7.22	7	131,501,076	G	T	632	509	131	110	314	120	54.36%	72.35%
610184	7.22	7	131,637,428	C	T	218	204	205	151	239	72	57.58%	76.85%
610184	7.22	7	131,688,223	A	C	213	244	190	155	308	107	50.50%	74.22%
610184	7.22	7	132,322,869	G	A	166	174	141	128	181	46	52.46%	79.74%
610184	7.22	7	132,392,436	T	C	249	278	264	220	273	84	54.55%	76.47%
610184	7.22	7	132,779,337	G	C	588	608	379	371	387	126	50.53%	75.44%
610184	7.22	7	132,929,393	T	C	303	342	411	344	278	83	54.44%	77.01%
610184	7.22	7	134,409,651	T	C	320	311	262	266	222	57	49.62%	71.84%
610184	7.22	7	134,476,485	T	C	344	251	257	208	301	110	55.27%	73.24%
610184	7.22	7	135,113,308	C	T	374	398	332	332	252	96	50.00%	72.41%
610184	7.22	7	135,557,179	T	A	190	219	266	277	230	65	48.99%	77.37%
610184	7.22	7	136,779,069	C	T	199	210	295	298	200	67	49.75%	74.91%
610184	7.22	7	137,057,280	G	A	360	310	428	408	267	112	51.20%	70.45%
610184	7.22	7	137,057,839	A	G	32	0	51	0	24	0	100.00%	100.00%
610184	7.22	7	137,302,925	C	A	811	8	785	15	280	65	98.13%	81.16%
610184	7.22	7	137,915,850	G	A	399	435	376	373	380	134	50.20%	73.93%
610184	7.22	7	137,921,197	G	A	342	295	297	252	197	72	54.10%	73.23%
610184	7.22	7	138,037,087	T	C	678	728	414	443	332	102	48.31%	76.50%
610184	7.22	7	138,037,129	T	C	671	785	461	455	382	120	50.33%	76.10%
610184	7.22	7	138,211,715	C	G	213	184	153	95	229	66	61.69%	77.63%
610184	7.22	7	138,359,389	T	C	165	162	150	192	132	49	43.86%	72.93%
610184	7.22	7	138,383,037	A	G	388	404	434	388	278	90	52.80%	75.54%
610184	7.22	7	139,096,411	G	A	366	802	349	305	374	110	53.36%	77.27%
610184	7.22	7	139,328,273	C	A	111	141	122	114	105	37	51.69%	73.94%
610184	7.22	7	139,697,560	G	A	590	521	262	266	380	121	49.62%	75.85%
610184	7.22	7	140,082,621	A	G	165	164	187	176	188	60	51.52%	75.81%
610184	7.22	7	140,647,516	A	G	333	445	344	351	218	72	49.50%	75.17%
610184	7.22	7	140,734,967	G	A	692	651	500	353	396	120	58.82%	76.74%
610184	7.22	7	141,067,237	A	G	526	437	412	381	377	118	51.95%	76.16%
610184	7.22	7	141,111,234	T	C	427	473	613	611	342	129	50.08%	72.61%
610184	7.22	7	141,124,777	C	T	282	339	417	329	311	102	55.90%	75.30%
610184	7.22	7	141,225,043	C	G	227	235	269	202	235	70	57.11%	77.05%
610184	7.22	7	141,179,431	G	A	242	224	255	260	293	111	49.51%	72.52%
610184	7.22	7	141,265,755	T	G	874	43	1001	44	298	61	95.59%	83.01%
610184	7.22	7	141,333,191	G	A	238	206	313	296	258	78	51.40%	76.79%
610184	7.22	7	141,375,726	T	A	569	644	363	331	261	82	52.31%	76.09%
610184	7.22	7	141,484,831	G	C	338	416	428	467	318	111	47.82%	74.13%
610184	7.23	7	141,796,449	G	A	163	193	153	178	194	63	46.22%	75.49%
610184	7.23	7	141,843,319	C	A	233	261	201	235	217	84	46.10%	72.09%
610184	7.23	7	141,909,681	G	A	328	315	267	236	223	65	53.08%	77.43%
610184	7.23	7	141,971,359	T	A	133	142	76	74	59	17	50.67%	77.63%
610184	7.23	7	141,982,377	T	A	304	262	265	285	239	82	48.18%	74.45%
610184	7.23	7	142,009,090	A	G	536	449	381	362	264	107	51.28%	71.16%
610184	7.23	7	142,080,403	T	C	286	287	398	396	293	70	50.13%	80.72%
610184	7.23	7	142,091,851	C	A	137	129	161	122	97	17	56.89%	85.09%
610184	7.23	7	142,101,110	T	C	508	563	541	508	238	62	51.57%	79.33%
610184	7.23	7	142,215,149	T	A	701	702	217	193	253	87	52.93%	74.41%
610184	7.23	7	142,219,828	C	T	382	438	142	170	348	105	45.51%	76.82%
610184	7.23	7	142,246,279	C	G	266	209	346	277	159	34	55.54%	82.38%
610184	7.23	7	142,704,105	A	G	362	318	167	171	191	62	49.41%	75.49%
610184	7.23	7	142,747,125	C	G	718	783	129	111	316	113	53.75%	73.66%
610184	7.23	7	142,849,503	G	A	456	502	356	385	247	101	48.04%	70.98%

610184	7.23	7	142,901,730	T	C	165	158	194	138	205	65	58.43%	75.93%
610184	7.23	7	142,903,215	C	G	283	290	249	234	324	122	51.55%	72.65%
610184	7.23	7	142,903,988	G	T	253	188	216	198	273	80	52.17%	77.34%
610184	7.23	7	142,908,013	C	T	247	228	141	143	291	86	49.65%	77.19%
610184	7.23	7	142,910,495	T	A	294	292	165	163	237	82	50.30%	74.29%
610184	7.23	7	142,917,359	T	C	331	340	154	167	458	163	47.98%	73.75%
610184	7.23	7	143,039,393	C	A	61	44	26	13	35	4	66.67%	89.74%
610184	7.23	7	143,056,294	T	G	539	425	366	310	346	121	54.14%	74.09%
610184	7.23	7	143,059,971	A	G	315	314	204	196	152	53	51.00%	74.15%
610184	7.23	7	143,060,577	A	T	226	203	164	115	185	57	58.78%	76.45%
610184	7.23	7	143,151,915	A	C	127	296	66	120	84	53	35.48%	61.31%
610184	7.23	7	143,207,672	G	A	315	345	152	115	300	108	56.93%	73.53%
610184	7.23	7	143,264,090	C	T	332	327	331	304	307	111	52.13%	73.44%
610184	7.23	7	143,264,230	G	A	234	232	293	256	212	87	53.37%	70.90%
610184	7.23	7	143,283,096	T	C	136	133	202	186	111	30	52.06%	78.72%
610184	7.23	7	143,377,511	T	C	450	334	270	267	245	73	50.28%	77.04%
610184	7.23	7	143,385,892	G	A	256	207	262	203	139	37	56.34%	78.98%
610184	7.23	7	143,398,656	C	G	231	228	233	258	166	52	47.45%	76.15%
610184	7.23	7	143,428,279	A	G	172	165	185	162	66	20	53.31%	76.74%
610184	7.23	7	143,437,621	A	C	226	263	174	157	211	73	52.57%	74.30%
610184	7.23	7	143,438,237	C	T	196	142	171	147	225	59	53.77%	79.23%
610184	7.23	7	143,441,302	T	C	57	56	87	76	40	24	53.37%	62.50%
610184	7.23	7	143,451,154	A	G	473	413	435	376	326	111	53.64%	74.60%
610184	7.23	7	143,454,766	C	T	236	199	302	288	250	53	51.19%	82.51%
610184	7.23	7	143,546,531	G	A	16	13	18	20	24	9	47.37%	72.73%
610184	7.23	7	143,720,925	G	A	226	200	83	57	269	90	58.39%	74.92%
610184	7.23	7	144,483,116	A	G	640	697	691	685	271	88	50.22%	75.49%
610184	7.23	7	144,706,223	G	A	210	260	169	217	148	67	43.78%	68.84%
610184	7.23	7	145,871,879	G	A	671	508	950	758	275	89	55.62%	75.55%
610184	7.23	7	144,915,707	G	A	145	74	251	179	126	21	58.37%	85.71%
610184	7.23	7	145,416,261	T	C	161	106	200	162	107	38	55.25%	73.79%
610184	7.23	7	146,072,352	A	G	388	353	456	428	152	58	51.88%	72.38%
610184	7.23	7	146,573,188	C	G	122	151	73	86	66	27	45.91%	70.97%
610184	7.23	7	146,844,495	C	T	151	160	119	134	144	64	47.04%	69.23%
610184	7.23	7	147,146,811	A	C	237	235	162	159	123	36	50.47%	77.36%
610184	7.23	7	147,348,495	C	T	572	602	453	425	328	94	51.59%	77.73%
610184	7.23	7	147,591,232	A	G	166	268	82	166	161	33.06%	64.14%	
610184	7.23	7	147,786,697	C	G	338	371	215	193	245	78	52.70%	75.85%
610184	7.23	7	148,321,215	C	G	124	188	26	36	226	74	41.94%	75.33%
610184	7.23	7	149,187,451	C	T	156	144	39	24	258	74	61.93%	77.71%
610184	7.23	7	149,197,108	A	G	119	112	52	37	279	103	58.43%	73.00%
610184	7.23	7	149,199,936	C	T	132	149	43	53	330	114	44.79%	74.03%
610184	7.23	7	149,221,224	G	A	300	58	289	78	82	73	78.75%	52.00%
610184	7.23	7	149,243,651	G	A	203	189	191	187	165	33	50.53%	83.33%
610184	7.23	7	149,305,768	T	C	441	422	393	352	162	94	52.75%	73.60%
610184	7.23	7	149,321,328	C	T	221	196	116	105	185	58	52.09%	76.13%
610184	7.23	7	149,432,782	T	C	319	287	132	168	358	110	44.00%	76.50%
610184	7.23	7	149,530,305	T	C	180	192	135	126	159	45	51.72%	77.94%
610184	7.23	7	149,530,521	T	C	104	85	95	78	145	43	54.91%	77.13%
610184	7.23	7	149,613,810	C	T	94	7	132	8	189	8	94.29%	95.94%
610184	7.23	7	149,614,021	C	T	132	93	76	79	205	41	49.63%	83.33%
610184	7.23	7	149,746,116	G	A	339	337	88	89	283	106	49.72%	72.75%
610184	7.23	7	149,869,994	C	G	409	362	409	374	317	132	52.23%	70.60%
610184	7.23	7	149,870,046	C	T	321	256	314	309	242	94	50.40%	72.02%
610184	7.23	7	150,004,661	A	C	428	530	339	341	202	82	49.85%	71.13%
610184	7.23	7	150,020,789	A	G	327	368	386	350	349	108	52.45%	76.37%
610184	7.23	7	150,052,273	G	A	389	345	295	250	227	67	54.13%	77.21%
610184	7.23	7	150,124,375	G	C	177	141	93	67	231	55	58.13%	80.77%
610184	7.23	7	150,159,171	A	G	553	523	223	192	328	102	53.73%	76.28%
610184	7.23	7	150,165,213	T	C	529	414	178	195	273	101	47.72%	72.99%
610184	7.23	7	150,240,828	A	G	563	547	373	339	278	98	52.39%	73.94%
610184	7.23	7	150,488,061	G	C	465	460	127	99	349	88	56.19%	79.86%
610184	7.23	7	150,523,532	T	C	285	187	25	25	195	48	50.00%	80.25%
610184	7.23	7	150,591,746	A	G	247	208	22	16	338	109	57.89%	75.62%
610184	7.23	7	150,591,771	T	C	227	201	20	16	359	95	55.56%	79.07%
610184	7.23	7	150,622,728	A	G	390	331	113	109	299	113	50.90%	72.57%
610184	7.23	7	150,622,742	C	T	388	326	115	108	289	111	51.57%	72.25%
610184	7.23	7	150,624,486	G	T	180	157	63	73	183	63	46.32%	74.39%
610184	7.23	7	150,659,936	G	A	165	169	46	38	81	36	54.76%	69.23%
610184	7.23	7	150,662,103	C	A	336	246	85	75	170	55	53.13%	75.56%
610184	7.23	7	150,670,368	G	A	166	185	81	92	288	68	46.82%	80.90%
610184	7.23	7	150,673,380	G	T	117	110	74	75	192	49	49.66%	79.67%
610184	7.23	7	150,674,968	A	G	71	53	35	32	116	33	52.24%	77.85%
610184	7.23	7	150,678,880	G	A	185	186	71	73	247	56	49.31%	81.52%
610184	7.23	7	150,683,230	T	C	532	576	131	159	348	127	45.17%	73.26%
610184	7.23	7	150,685,929	G	A	251	217	97	73	173	35	57.06%	83.17%
610184	7.23	7	150,689,556	T	A	299	354	102	77	237	84	56.98%	73.83%
610184	7.23	7	150,698,522	T	C	41	35	26	17	63	25	60.47%	71.59%
610184	7.23	7	150,880,288	C	T	324	356	169	113	338	98	59.93%	77.52%
610184	7.23	7	150,894,529	A	G	220	8	247	14	148	53	94.64%	73.63%
610184	7.23	7	150,982,449	T	C	497	454	453	383	384	103	54.19%	78.85%
610184	7.23	7	150,987,207	T	C	393	386	404	396	245	80	50.50%	75.38%
610184	7.23	7	151,033,785	A	C	169	165	64	37	297	72	63.37%	80.49%
610184	7.23	7	151,033,835	T	C	170	178	59	57	302	92	50.86%	76.65%
610184	7.23	7	151,150,356	T	C	216	188	78	67	277	94	53.79%	74.66%
610184	7.23	7	151,223,649	A	G	456	450	229	186	310	90	55.18%	77.50%
610184	7.23	7	151,276,879	G	T	1009	1149	254	312	300	118	44.88%	71.77%
610184	7.23	7	151,306,396	A	G	221	272	209	273	200	74	43.36%	72.99%
610184	7.23	7	151,311,108	T	C	166	160	185	253	412	105	42.24%	79.69%
610184	7.23	7	151,337,042	C	T	271	226	160	148	273	89	51.95%	75.41%
610184	7.23	7	151,625,073	C	A	64	45	85	73	49	38	53.80%	56.32%
610184	7.23	7	151,625,077	G	C	112	47	129	73	64	37	63.86%	63.37%
610184	7.23	7	151,631,689	C	T	241	268	336	280	203	55	54.55%	78.68%
610184	7.23	7	151,677,130	T	A	282	263	206	178	237	68	53.65%	77.70%

610184	7.23	7	151,942,560	G	A	81	116	64	56	62	18	53.33%	77.50%
610184	7.23	7	152,161,807	T	C	275	230	145	129	238	113	52.92%	67.81%
610184	7.23	7	152,291,030	A	G	114	153	135	180	97	48	42.86%	66.90%
610184	7.23	7	152,440,430	G	A	129	140	130	166	103	47	43.92%	68.67%
610184	7.23	7	152,471,854	C	T	84	97	144	109	80	18	56.92%	81.63%
610184	7.23	7	152,573,613	T	C	695	711	525	510	290	83	50.72%	77.75%
610184	7.23	7	152,690,315	T	C	198	177	213	192	123	29	52.59%	80.92%
610184	7.23	7	152,769,613	C	T	464	437	224	207	331	94	51.97%	77.88%
610184	7.23	7	152,866,472	C	T	359	295	337	239	260	61	58.51%	81.00%
610184	7.23	7	153,109,214	T	G	260	264	222	187	295	77	54.28%	79.30%
610184	7.23	7	153,270,015	C	T	471	441	222	182	311	103	54.95%	75.12%
610184	7.23	7	153,276,964	C	T	543	478	292	287	313	81	50.43%	79.44%
610184	7.23	7	153,487,667	C	T	567	133	467	84	496	123	84.75%	80.13%
610184	7.23	7	153,604,499	A	G	372	410	283	263	389	133	51.83%	74.52%
610184	7.23	7	154,060,493	C	T	610	496	289	246	302	99	54.02%	75.31%
610184	7.23	7	154,097,407	G	A	430	466	284	255	364	119	52.69%	75.36%
610184	7.23	7	154,113,710	A	G	238	259	151	143	322	97	51.36%	76.85%
610184	7.23	7	154,129,961	T	G	690	52	624	71	300	66	89.78%	81.97%
610184	7.23	7	154,167,581	T	C	172	192	95	76	357	90	53.80%	74.06%
610184	7.23	7	154,209,788	C	T	149	185	48	39	253	72	55.17%	77.85%
610184	7.23	7	154,429,423	A	G	183	166	65	68	391	111	48.87%	77.89%
610184	7.23	7	154,528,598	T	G	163	192	130	103	208	59	55.79%	77.90%
610184	7.23	7	154,542,225	A	C	642	680	431	352	321	91	55.04%	77.91%
610184	7.23	7	154,607,865	G	C	340	323	109	107	382	113	50.45%	77.17%
610184	7.23	7	154,717,912	G	C	107	74	59	43	226	69	57.84%	82.53%
610184	7.23	7	154,734,804	C	T	323	404	190	183	354	92	50.94%	79.37%
610184	7.23	7	154,818,956	C	G	81	106	52	48	271	109	52.00%	71.32%
610184	7.23	7	154,820,982	G	C	107	14	52	7	663	121	88.14%	84.57%
610184	7.23	7	154,984,781	C	T	109	86	50	31	198	61	61.73%	76.45%
610184	7.23	7	154,988,615	G	A	301	152	42	54	229	62	43.75%	78.69%
610184	7.23	7	154,989,181	T	C	328	306	45	60	277	86	42.86%	76.31%
610184	7.23	7	154,992,808	G	A	181	176	48	33	210	62	59.26%	77.21%
610184	7.23	7	154,993,699	G	A	272	301	61	49	346	108	55.45%	76.21%
610184	7.23	7	155,014,243	A	G	225	189	33	41	182	77	44.59%	70.27%
610184	7.23	7	155,023,284	G	T	74	80	10	19	89	27	34.48%	76.72%
610184	7.23	7	155,029,372	G	A	143	136	32	18	287	109	64.00%	72.47%
610184	7.23	7	155,029,399	C	T	139	119	38	17	386	93	69.09%	75.59%
610184	7.23	7	155,069,617	A	G	542	624	114	124	348	85	47.90%	74.47%
610184	7.23	7	155,118,161	A	C	408	129	461	172	208	82	72.83%	71.72%
610184	7.23	7	155,268,536	G	A	216	204	65	45	259	87	59.69%	74.86%
610184	7.23	7	155,313,704	C	G	181	179	16	27	202	74	37.21%	73.19%
610184	7.23	7	155,320,034	A	G	531	571	227	234	266	81	49.24%	76.65%
610184	7.23	7	155,007,033	G	T	237	201	247	211	213	59	53.93%	78.34%
610184	7.23	7	156,101,408	C	G	180	179	49	45	275	89	52.13%	75.55%
610184	7.23	7	156,121,373	T	G	185	165	55	68	175	43	44.72%	80.28%
610184	7.23	7	156,129,530	T	C	186	195	103	98	265	100	51.24%	72.60%
610184	7.23	7	156,162,381	C	T	156	168	185	179	213	45	50.92%	82.56%
610184	7.23	7	156,168,208	A	G	147	160	185	197	155	66	48.48%	71.43%
610184	7.23	7	156,176,963	T	C	270	269	258	247	248	92	51.09%	75.15%
610184	7.23	7	156,210,768	T	C	317	320	581	504	437	135	53.55%	76.40%
610184	7.23	7	156,256,601	A	G	142	183	335	337	84	30	49.85%	73.69%
610184	7.23	7	156,277,328	C	G	106	89	206	205	133	46	50.12%	74.30%
610184	7.23	7	156,277,665	T	C	108	119	259	198	158	44	56.67%	78.22%
610184	7.23	7	156,402,537	A	G	428	368	65	63	304	104	50.78%	74.51%
610184	7.23	7	156,564,556	C	T	296	304	104	122	261	96	46.02%	73.11%
610184	7.23	7	156,565,514	C	A	133	121	56	46	130	38	54.90%	77.38%
610184	7.23	7	156,648,341	G	A	111	90	93	64	16	49.18%	80.00%	
610184	7.23	7	156,670,010	A	G	77	68	136	135	105	38	50.18%	73.43%
610184	7.23	7	156,671,173	C	I	271	299	336	263	229	67	56.09%	77.36%
610184	7.23	7	156,671,247	G	C	195	184	230	158	168	44	59.28%	79.25%
610184	7.23	7	156,683,315	C	T	316	300	415	319	341	93	56.54%	78.57%
610184	7.23	7	156,693,922	A	G	133	142	149	164	103	28	47.60%	78.63%
610184	7.23	7	156,701,761	T	C	186	195	249	215	156	45	53.66%	77.61%
610184	7.23	7	156,721,641	G	A	241	214	186	170	344	77	52.25%	81.71%
610184	7.23	7	156,730,282	C	T	277	245	258	245	168	46	51.29%	78.50%
610184	7.23	7	156,742,570	G	A	274	285	168	204	276	81	45.16%	77.31%
610184	7.23	7	156,756,138	A	G	275	319	79	93	384	104	45.93%	78.69%
610184	7.23	7	156,933,077	A	C	55	70	25	18	168	65	58.14%	72.10%
610184	7.23	7	156,943,644	A	C	197	146	52	44	259	61	54.17%	80.94%
610184	7.23	7	156,972,137	C	A	186	183	80	77	263	90	50.96%	74.50%
610184	7.23	7	156,991,398	T	G	186	152	37	33	170	42	52.86%	80.19%
610184	7.23	7	156,991,631	T	C	93	114	33	29	122	38	53.23%	76.25%
610184	7.23	7	156,992,190	G	T	219	217	48	35	304	90	57.83%	77.16%
610184	7.23	7	157,002,169	T	C	221	243	90	80	304	86	52.94%	77.95%
610184	7.23	7	157,004,749	A	C	122	115	54	42	199	57	56.25%	77.73%
610184	7.23	7	157,010,876	G	A	242	271	103	113	218	79	47.69%	73.40%
610184	7.23	7	157,017,352	C	A	194	176	105	94	187	38	52.76%	83.11%
610184	7.23	7	157,020,652	T	G	245	144	80	93	197	58	46.24%	77.25%
610184	7.23	7	157,021,059	C	A	197	160	76	53	162	49	58.91%	76.78%
610184	7.23	7	157,024,462	A	T	193	184	74	67	314	79	52.48%	79.90%
610184	7.23	7	157,050,363	T	C	160	162	31	27	273	87	53.45%	75.83%
610184	7.23	7	157,061,230	C	G	281	258	72	69	264	88	51.06%	75.00%
610184	7.23	7	157,064,586	A	G	140	143	60	48	239	88	55.56%	73.09%
610184	7.23	7	157,065,750	C	G	98	115	32	47	260	71	40.51%	78.55%
610184	7.23	7	157,067,747	T	C	84	68	25	22	268	97	53.19%	73.42%
610184	7.23	7	157,085,824	G	T	245	207	39	36	359	103	52.00%	77.71%
610184	7.23	7	157,092,451	C	T	134	119	24	20	375	100	54.55%	78.95%
610184	7.23	7	157,122,627	C	A	205	182	76	53	231	40	58.91%	85.24%
610184	7.23	7	157,327,683	T	C	210	203	63	61	287	86	50.81%	76.94%
610184	7.23	7	157,336,364	C	A	125	102	47	32	301	86	59.49%	77.78%
610184	7.23	7	157,366,684	T	C	311	68	69	13	428	34	84.15%	92.64%
610184	7.23	7	157,375,374	T	C	72	109	35	29	276	98	54.69%	73.80%
610184	7.23	7	157,404,024	A	G	175	216	62	66	296	111	48.44%	72.73%
610184	7.23	7	157,410,553	G	A	83	60	26	34	61	16	43.33%	79.22%
610184	7.23	7	157,410,572	G	A	120	69	49	24	56	55	67.12%	50.45%

610184	7.23	7	157,410,715	C	T	147	51	69	22	95	50	75.82%	65.52%
610184	7.23	7	157,410,707	T	C	240	237	111	87	215	80	56.06%	72.88%
610184	7.23	7	157,415,797	C	T	254	267	179	140	271	98	56.11%	73.44%
610184	7.23	7	157,415,807	T	C	231	242	174	126	270	82	58.00%	76.70%
610184	7.23	7	157,424,514	C	T	649	359	437	259	535	138	62.79%	79.49%
610184	7.23	7	157,429,494	T	C	167	106	92	32	340	102	74.19%	76.92%
610184	7.23	7	157,439,454	G	A	718	613	126	88	399	90	58.88%	81.60%
610184	7.23	7	157,440,750	T	C	537	580	109	91	265	90	54.50%	74.65%
610184	7.23	7	157,442,913	A	G	361	398	82	77	174	52	51.57%	76.99%
610184	7.23	7	157,458,192	T	C	345	230	80	60	405	285	57.14%	58.70%
610184	7.23	7	157,613,655	G	C	570	678	126	128	425	133	49.61%	76.16%
610184	7.23	7	157,640,502	T	C	312	508	46	52	347	109	46.94%	76.10%
610184	7.23	7	157,672,507	T	C	87	125	55	44	271	85	55.56%	76.12%
610184	7.23	7	157,672,553	A	G	81	111	47	38	268	82	55.39%	76.57%
610184	7.23	7	157,672,905	A	G	41	48	33	33	149	43	50.00%	77.60%
610184	7.23	7	157,699,273	A	G	102	140	101	81	71	30	55.49%	70.30%
610184	7.23	7	157,729,195	G	A	530	618	171	132	378	105	56.44%	78.26%
610184	7.23	7	157,731,750	C	T	723	735	139	127	266	71	52.26%	78.93%
610184	7.23	7	157,736,084	C	G	662	556	110	75	358	85	58.46%	80.81%
610184	7.23	7	157,742,182	T	C	139	173	45	45	201	68	50.00%	74.72%
610184	7.23	7	157,873,012	C	T	63	34	28	11	202	78	71.79%	72.14%
610184	7.23	7	157,893,755	C	T	122	90	46	45	309	85	50.55%	78.43%
610184	7.23	7	157,896,640	T	C	247	217	39	60	299	91	39.39%	76.67%
610184	7.23	7	157,903,403	T	C	229	263	54	48	531	193	52.94%	73.34%
610184	7.23	7	157,907,147	A	G	102	124	26	26	265	82	50.00%	76.37%
610184	7.23	7	157,945,923	A	G	235	203	105	71	485	100	59.66%	82.91%
610184	7.23	7	157,950,720	T	C	284	295	46	34	277	97	57.50%	74.06%
610184	7.23	7	157,956,092	T	C	245	129	39	27	252	48	59.09%	84.00%
610184	7.23	7	157,956,097	G	C	237	132	38	27	239	52	58.46%	82.13%
610184	7.23	7	157,956,105	T	A	227	128	41	25	233	47	62.12%	83.21%
610184	7.23	7	157,957,051	C	T	439	315	64	48	384	116	57.14%	76.80%
610184	7.23	7	157,959,294	T	G	121	60	18	12	136	21	60.00%	86.62%
610184	7.23	7	157,962,934	T	C	90	84	27	30	168	81	47.37%	67.47%
610184	7.23	7	157,963,900	A	G	119	105	19	21	189	50	47.50%	79.08%
610184	7.23	7	157,964,403	T	C	213	199	40	37	263	54	51.95%	80.43%
610184	7.23	7	158,134,332	T	C	334	153	482	203	453	183	70.36%	71.23%
610184	7.23	7	158,134,352	T	C	401	117	600	143	544	153	80.75%	82.05%
610184	7.23	7	158,217,826	T	G	346	367	397	308	330	86	56.31%	79.33%
610184	7.23	7	158,219,115	G	A	122	139	200	150	93	31	57.14%	75.00%
610184	7.23	7	158,219,256	G	A	113	101	183	136	107	22	57.37%	82.95%
610184	7.23	7	158,232,465	G	A	310	344	315	309	350	100	50.48%	77.78%
610184	7.23	7	158,253,383	C	A	341	342	325	330	351	108	49.26%	76.47%
610184	7.23	7	158,280,899	T	C	298	237	216	148	315	66	59.34%	82.69%
610184	7.23	7	158,284,274	G	A	340	75	76	15	438	18	83.52%	96.05%
610184	7.23	7	158,413,395	C	G	197	205	101	109	150	61	48.10%	71.99%
610184	7.23	7	158,473,324	G	A	399	357	107	71	400	144	60.11%	77.29%
610184	7.23	7	158,761,418	T	C	602	470	489	352	233	89	58.15%	72.85%
610184	7.23	7	158,792,764	C	G	323	32	614	19	312	81	97.00%	79.39%
610184	7.23	7	158,873,187	T	G	229	338	85	624	329	270	11.99%	54.92%
610184	7.23	7	158,886,983	A	T	310	301	381	338	295	95	52.59%	75.64%
610184	13	13	39,224,282	A	G	221	174	293	54	177	16	84.40%	91.71%
610184	13	13	40,416,032	A	G	384	56	146	25	160	72	85.38%	68.77%
610184	13	13	40,474,322	C	G	205	131	303	33	177	19	90.18%	90.31%
610184	13	13	41,076,790	G	A	503	458	307	63	303	39	82.97%	88.60%
610184	13	13	41,363,713	T	C	531	518	181	22	382	30	89.16%	92.72%
610184	13	13	41,670,717	G	T	242	302	362	71	256	33	83.00%	88.58%
610184	13	13	42,186,307	T	A	321	315	405	70	338	47	85.26%	87.79%
610184	13	13	42,367,157	G	A	755	767	935	126	299	32	88.12%	90.33%
610184	13	13	42,442,964	T	G	404	313	424	26	388	56	94.22%	87.39%
610184	13	13	43,910,908	C	T	106	105	41	6	141	11	87.23%	92.76%
610184	13	13	44,782,536	A	G	262	197	54	14	306	31	79.94%	90.80%
610184	13	13	45,539,467	A	G	374	368	198	38	256	18	83.90%	93.43%
610184	13	13	46,222,381	A	G	79	162	187	42	66	9	81.66%	88.00%
610184	13	13	47,180,573	G	T	669	661	454	66	331	42	87.31%	88.74%
610184	13	13	49,336,965	C	T	807	656	524	74	212	19	87.63%	91.77%
610184	13	13	49,717,770	G	A	474	461	620	105	399	38	85.52%	91.30%
610184	13	13	50,313,032	G	A	247	226	167	31	254	23	84.34%	91.70%
610184	13	13	50,357,329	A	G	322	296	235	51	230	27	82.17%	89.49%
610184	13	13	50,441,004	T	C	275	238	299	39	279	32	88.46%	89.71%
610184	13	13	50,446,356	C	T	590	531	337	59	375	55	85.10%	87.21%
610184	13	13	50,511,136	A	G	344	323	327	67	250	33	82.99%	88.34%
610184	13	13	50,622,625	C	T	171	186	148	50	219	35	74.75%	86.22%
610184	13	13	50,733,486	G	A	148	181	60	4	233	25	93.75%	90.31%
610184	13	13	50,932,970	T	A	141	157	95	17	213	25	84.82%	89.50%
610184	13	13	50,933,164	G	A	73	85	54	7	113	10	88.52%	91.87%
610184	13	13	50,988,384	A	G	140	122	185	29	100	7	86.45%	93.46%
610184	13	13	51,224,478	G	A	214	173	227	40	296	30	85.02%	90.80%
610184	13	13	51,359,861	C	T	490	404	497	61	364	31	89.07%	92.15%
610184	13	13	51,421,809	T	C	473	528	200	46	353	42	81.30%	89.37%
610184	13	13	51,565,192	T	A	166	187	146	40	174	15	78.49%	92.06%
610184	13	13	86,707,692	T	C	461	406	317	390	267	260	44.84%	50.66%
610184	13	13	86,707,784	T	C	359	370	294	276	203	189	51.58%	51.79%
610184	13	13	86,711,757	G	A	285	291	374	237	154	140	61.21%	52.38%
610184	13	13	86,716,040	T	C	76	82	173	30	69	6	85.22%	92.00%
610184	13	13	86,717,683	T	A	197	170	239	53	97	11	81.85%	89.81%
610184	13	13	86,723,846	T	C	188	167	222	47	152	15	82.53%	91.02%
610184	13	13	86,728,420	C	G	214	151	309	38	131	11	89.05%	92.25%
610184	13	13	86,741,461	G	A	541	532	500	86	187	20	85.32%	90.34%
610184	13	13	86,774,494	C	T	267	218	237	44	147	17	84.34%	89.63%
610184	13	13	86,780,708	A	T	186	188	203	44	127	10	82.19%	92.70%
610184	13	13	86,781,509	C	A	271	222	287	36	270	38	88.85%	87.66%
610184	13	13	86,793,347	C	T	220	251	196	32	207	27	85.96%	88.46%
610184	13	13	86,849,691	T	G	368	409	274	76	253	206	78.29%	55.12%
610184	13	13	86,970,423	G	A	206	134	38	133	175	152	22.22%	53.52%
610184	13	13	86,974,515	T	A	77	96	104	25	79	55	80.62%	58.96%

610184	13.03	13	86,979,728	A	G	335	319	351	88	303	263	79.95%	53.53%
610184	13.03	13	86,980,943	A	T	105	98	116	27	61	46	81.12%	57.01%
610184	13.03	13	86,981,471	G	T	195	167	175	53	127	77	76.75%	62.25%
610184	13.03	13	86,981,991	A	G	287	195	78	190	185	127	29.10%	59.29%
610184	13.03	13	86,983,722	G	A	388	409	336	91	242	212	78.69%	53.30%
610184	13.03	13	86,984,724	C	T	310	282	93	259	285	227	26.42%	55.66%
610184	13.03	13	87,001,769	G	A	112	0	96	4	67	0	96.00%	100.00%
610184	13.03	13	87,034,450	G	A	333	396	354	101	263	205	77.80%	56.20%
610184	13.03	13	87,064,105	C	T	164	170	180	51	116	87	77.92%	57.14%
610184	13.03	13	87,106,833	C	T	222	200	135	34	286	211	79.88%	57.55%
610184	13.03	13	87,121,262	C	T	108	135	85	18	276	237	82.52%	53.80%
610184	13.03	13	87,166,330	G	A	186	126	48	171	113	94	21.92%	54.59%
610184	13.04	13	87,553,772	C	A	411	376	332	72	196	32	82.18%	85.96%
610184	17.01	17	66,902	G	A	19	6	36	0	81	1	100.00%	98.78%
610184	17.01	17	68,273	T	C	56	6	38	7	132	19	84.44%	87.42%
610184	17.01	17	71,973	A	G	70	106	77	5	405	24	93.90%	94.41%
610184	17.01	17	78,803	T	C	89	112	102	6	240	31	94.44%	88.56%
610184	17.01	17	94,870	A	G	494	315	424	18	556	53	95.93%	91.30%
610184	17.01	17	94,870	A	G	494	315	424	18	556	53	95.93%	91.30%
610184	17.01	17	126,701	C	A	466	392	193	16	209	11	92.34%	95.00%
610184	17.01	17	126,701	C	A	466	392	193	16	209	11	92.34%	95.00%
610184	17.01	17	127,753	C	A	471	382	189	6	239	13	96.92%	94.84%
610184	17.01	17	130,606	G	C	481	541	159	9	301	28	94.64%	91.49%
610184	17.01	17	168,810	G	A	24	16	16	5	539	39	76.19%	93.25%
610184	17.01	17	360,323	T	C	515	129	500	163	428	144	75.41%	74.82%
610184	17.01	17	360,464	C	T	112	103	150	121	167	139	55.55%	54.58%
610184	17.01	17	381,260	A	C	317	370	444	21	246	26	95.48%	90.58%
610184	17.01	17	412,525	G	A	426	386	346	22	382	29	94.02%	92.94%
610184	17.01	17	412,525	G	A	426	386	346	22	382	29	94.02%	92.94%
610184	17.01	17	426,070	G	C	108	69	321	16	290	15	95.25%	95.08%
610184	17.01	17	428,354	T	C	28	17	102	6	204	11	94.44%	94.88%
610184	17.01	17	430,099	G	T	21	24	92	1	180	19	98.92%	90.45%
610184	17.01	17	457,906	A	G	577	482	374	18	445	31	95.41%	93.49%
610184	17.01	17	471,000	A	G	194	155	306	18	276	18	94.44%	93.88%
610184	17.01	17	471,810	T	C	194	176	203	17	268	23	94.52%	91.10%
610184	17.01	17	471,810	T	C	194	176	203	17	268	23	94.52%	91.10%
610184	17.01	17	471,885	T	C	92	92	138	12	123	15	92.00%	89.13%
610184	17.01	17	471,885	T	C	92	92	138	12	123	15	92.00%	89.13%
610184	17.01	17	620,645	G	C	278	387	583	26	303	26	95.73%	92.10%
610184	17.01	17	683,677	T	C	391	328	156	4	383	34	97.50%	91.85%
610184	17.01	17	723,587	C	T	260	275	206	14	263	27	93.64%	90.69%
610184	17.01	17	723,807	G	A	158	154	128	8	229	22	94.12%	91.24%
610184	17.01	17	730,330	C	A	225	202	306	24	209	20	92.39%	91.27%
610184	17.01	17	740,121	T	C	812	772	868	49	436	36	94.66%	92.37%
610184	17.01	17	746,683	G	A	454	507	367	13	321	25	96.58%	92.77%
610184	17.01	17	759,283	T	G	267	303	139	14	219	16	90.85%	93.19%
610184	17.01	17	759,284	T	C	266	306	141	14	220	15	90.97%	93.62%
610184	17.01	17	759,443	T	C	460	445	204	10	294	26	95.33%	91.88%
610184	17.01	17	759,500	G	A	330	283	147	7	198	16	95.55%	92.52%
610184	17.01	17	773,781	A	G	423	455	130	2	362	35	98.48%	91.18%
610184	17.01	17	783,384	G	A	621	480	180	3	397	25	98.36%	94.08%
610184	17.01	17	784,505	T	C	413	254	128	2	209	20	98.46%	91.27%
610184	17.01	17	784,547	T	A	346	232	92	3	164	12	96.84%	93.18%
610184	17.01	17	787,733	T	C	416	314	123	3	358	18	97.62%	95.21%
610184	17.01	17	899,653	C	T	366	396	127	8	406	31	94.07%	92.91%
610184	17.01	17	1,006,809	C	T	232	220	88	5	418	23	94.62%	94.78%
610184	17.01	17	1,009,647	T	G	436	37	115	1	582	11	99.14%	98.15%
610184	17.01	17	1,014,286	G	C	130	99	41	25	306	212	62.12%	59.07%
610184	17.01	17	1,07,714	A	G	207	227	81	4	271	31	95.39%	89.74%
610184	17.01	17	1,087,081	C	A	189	235	62	3	188	18	95.38%	91.26%
610184	17.01	17	1,094,639	G	T	75	30	25	0	128	3	100.00%	97.71%
610184	17.01	17	1,095,678	C	A	123	124	30	0	195	14	100.00%	93.30%
610184	17.01	17	1,095,775	T	G	160	187	38	0	211	29	100.00%	87.92%
610184	17.01	17	1,264,511	A	G	513	445	198	9	472	37	95.65%	92.73%
610184	17.01	17	1,268,298	G	T	316	279	184	6	239	21	96.84%	91.92%
610184	17.01	17	1,278,134	G	A	201	167	136	6	221	19	95.77%	92.08%
610184	17.01	17	1,281,116	C	G	470	427	245	16	474	43	93.87%	91.68%
610184	17.01	17	1,310,268	C	G	288	272	78	4	369	34	95.12%	91.56%
610184	17.01	17	1,349,459	G	C	127	123	32	1	151	11	96.97%	93.21%
610184	17.01	17	1,369,237	A	G	272	232	114	4	495	40	96.61%	92.52%
610184	17.01	17	1,375,000	C	T	352	363	214	9	245	21	95.96%	92.11%
610184	17.01	17	1,376,335	G	A	298	242	173	8	330	23	95.58%	93.48%
610184	17.01	17	1,376,369	T	C	290	236	168	7	322	33	96.00%	90.70%
610184	17.01	17	1,376,381	G	A	274	234	155	9	334	32	94.51%	91.26%
610184	17.01	17	1,376,542	T	A	228	163	126	6	229	19	95.45%	92.34%
610184	17.01	17	1,377,099	G	A	228	195	135	3	243	17	97.83%	93.46%
610184	17.01	17	1,377,162	G	A	333	307	206	6	367	30	97.17%	92.44%
610184	17.01	17	1,377,264	T	C	240	215	163	5	271	19	97.02%	93.45%
610184	17.01	17	1,382,109	G	A	502	377	314	12	355	13	96.32%	96.47%
610184	17.01	17	1,387,484	A	C	108	94	63	1	137	8	98.44%	94.48%
610184	17.01	17	1,394,506	T	C	423	310	163	7	457	25	95.88%	94.81%
610184	17.01	17	1,644,580	C	T	294	184	217	13	273	25	94.35%	91.61%
610184	17.01	17	1,651,046	C	A	305	268	221	11	435	25	95.26%	94.57%
610184	17.01	17	1,674,426	C	T	250	213	199	10	220	28	95.22%	88.71%
610184	17.01	17	1,683,636	C	T	230	179	161	9	201	13	94.71%	93.93%
610184	17.01	17	1,696,700	C	T	342	355	313	13	322	19	96.01%	94.43%
610184	17.01	17	1,699,800	T	G	414	355	306	16	254	22	95.03%	92.03%
610184	17.01	17	1,703,101	G	A	414	345	488	27	409	32	94.76%	92.74%
610184	17.01	17	1,716,950	C	A	245	233	354	16	353	27	95.68%	92.89%
610184	17.01	17	1,723,617	A	C	337	296	326	19	358	23	94.49%	93.96%
610184	17.01	17	1,723,650	T	G	285	270	290	18	311	18	94.16%	94.53%
610184	17.01	17	1,731,525	C	T	440	408	747	23	454	36	97.01%	92.65%
610184	17.01	17	1,773,389	C	T	192	206	50	3	249	16	94.34%	93.96%
610184	17.01	17	1,776,869	A	T	141	148	63	3	308	30	95.45%	91.12%
610184	17.01	17	1,914,251	C	T	380	304	124	4	421	28	96.88%	93.76%

610184	17.01	17	1,916,951	C	A	296	306	101	2	327	28	98.06%	92.11%
610184	17.01	17	1,929,702	A	G	429	454	473	19	390	28	96.14%	93.30%
610184	17.01	17	1,929,856	C	T	154	153	192	5	195	11	97.46%	94.66%
610184	17.01	17	1,948,575	T	C	266	257	408	18	481	45	95.77%	91.44%
610184	17.01	17	1,951,880	C	T	249	235	259	13	380	30	95.52%	92.68%
610184	17.01	17	1,951,886	C	G	234	232	254	12	364	29	95.49%	92.62%
610184	17.01	17	1,956,502	A	C	300	326	306	21	455	37	93.58%	92.48%
610184	17.01	17	1,961,061	A	G	378	454	358	28	444	29	97.25%	93.87%
610184	17.01	17	2,055,603	T	C	219	222	520	30	225	14	94.55%	94.14%
610184	17.01	17	2,062,021	T	C	344	324	678	52	408	30	92.88%	93.15%
610184	17.01	17	2,091,943	C	T	254	186	241	12	341	25	95.26%	93.17%
610184	17.01	17	2,116,771	C	T	401	412	415	23	394	28	94.75%	93.36%
610184	17.01	17	2,145,631	G	T	611	580	494	32	423	23	93.92%	94.84%
610184	17.01	17	2,178,994	G	A	232	3	59	0	72	0	100.00%	100.00%
610184	17.01	17	2,260,824	T	C	349	513	189	14	394	34	93.10%	92.06%
610184	17.01	17	2,418,808	T	C	497	424	455	21	338	25	95.59%	93.11%
610184	17.01	17	2,442,887	G	A	197	5	94	6	159	0	94.00%	100.00%
610184	17.01	17	2,464,948	T	C	104	73	173	11	212	16	94.02%	92.98%
610184	17.01	17	2,486,324	G	T	557	94	692	120	212	127	94.18%	60.86%
610184	17.01	17	2,493,090	T	C	99	115	226	17	170	12	93.00%	93.41%
610184	17.01	17	2,500,749	C	T	72	79	197	6	62	2	97.04%	96.88%
610184	17.01	17	2,508,574	A	C	334	338	435	19	357	32	95.81%	91.77%
610184	17.01	17	2,522,369	G	A	201	166	249	9	189	13	96.51%	93.56%
610184	17.01	17	2,662,123	C	T	271	291	183	14	313	25	92.89%	92.60%
610184	17.01	17	2,712,245	A	T	153	175	111	1	348	24	99.11%	93.55%
610184	17.01	17	2,817,655	A	G	259	233	206	13	368	20	94.06%	94.85%
610184	17.01	17	2,828,275	A	G	185	192	281	11	274	19	96.12%	93.52%
610184	17.01	17	2,828,472	C	T	124	98	199	6	181	15	97.07%	92.35%
610184	17.01	17	2,828,477	G	A	122	96	201	6	176	15	97.10%	92.15%
610184	17.01	17	2,900,168	G	A	372	317	283	17	284	24	94.33%	92.21%
610184	17.01	17	2,908,459	T	A	56	56	37	26	15	12	58.73%	55.56%
610184	17.01	17	2,956,705	T	C	214	184	270	23	196	13	92.15%	93.72%
610184	17.01	17	2,956,705	T	C	214	184	270	23	196	13	92.15%	93.72%
610184	17.01	17	2,966,631	C	T	806	688	796	35	507	46	95.79%	91.68%
610184	17.01	17	3,047,577	C	T	627	639	943	46	422	28	95.35%	93.78%
610184	17.01	17	3,047,577	C	T	627	639	943	46	422	28	95.35%	93.78%
610184	17.01	17	3,066,423	A	G	526	593	888	29	454	44	96.84%	91.16%
610184	17.01	17	3,112,418	T	C	486	394	687	34	324	22	95.28%	93.64%
610184	17.01	17	3,138,363	G	A	412	581	340	27	162	7	92.64%	95.85%
610184	17.01	17	3,369,116	C	A	372	396	243	15	394	18	94.19%	95.63%
610184	17.01	17	3,640,149	G	C	343	359	191	13	380	32	93.83%	92.23%
610184	17.01	17	3,640,574	C	A	148	155	81	2	149	17	97.59%	89.76%
610184	17.01	17	3,642,738	G	A	608	600	239	16	374	29	93.78%	92.90%
610184	17.01	17	3,646,824	A	T	419	387	148	7	267	27	95.48%	90.82%
610184	17.01	17	3,665,682	T	C	262	301	278	15	276	28	94.88%	89.79%
610184	17.01	17	3,673,576	A	G	437	454	314	21	208	21	93.73%	89.93%
610184	17.01	17	3,675,652	A	T	386	347	292	22	362	35	92.99%	91.18%
610184	17.01	17	3,680,591	A	T	81	107	123	6	118	10	95.53%	92.19%
610184	17.01	17	3,896,583	A	G	250	163	510	24	480	27	95.51%	94.67%
610184	17.01	17	3,917,157	T	C	263	238	456	23	338	30	95.20%	91.85%
610184	17.01	17	3,929,377	G	C	251	236	694	42	405	35	94.29%	92.05%
610184	17.01	17	3,954,770	C	T	416	448	278	19	381	25	93.60%	93.84%
610184	17.01	17	3,954,770	C	T	416	448	278	19	381	25	93.60%	93.84%
610184	17.01	17	3,973,785	C	G	420	400	244	22	365	33	91.73%	91.71%
610184	17.01	17	3,974,897	C	G	402	355	220	20	324	34	91.67%	90.50%
610184	17.01	17	3,988,218	A	G	320	352	198	12	312	37	94.29%	89.40%
610184	17.01	17	4,067,243	G	C	263	236	95	12	318	28	88.97%	91.91%
610184	17.01	17	4,168,349	A	G	264	334	526	47	302	30	91.80%	90.96%
610184	17.01	17	4,203,401	G	A	137	150	98	7	146	17	93.33%	89.57%
610184	17.01	17	4,306,461	A	G	331	338	119	18	282	25	86.86%	91.86%
610184	17.01	17	4,459,381	T	A	462	407	153	12	359	28	92.73%	92.76%
610184	17.01	17	4,474,775	G	A	297	293	95	6	271	25	94.06%	91.55%
610184	17.01	17	4,488,053	C	T	269	71	56	24	238	149	70.00%	61.50%
610184	17.01	17	4,488,088	A	G	259	23	48	6	215	17	88.89%	92.67%
610184	17.01	17	4,597,861	A	C	186	144	68	4	162	13	94.44%	92.57%
610184	17.01	17	4,607,257	G	A	400	351	102	9	254	16	91.89%	94.07%
610184	17.01	17	4,627,481	G	A	357	368	75	10	285	33	88.24%	89.62%
610184	17.01	17	5,466,433	A	G	786	708	584	66	388	38	89.85%	91.08%
610184	17.01	17	5,467,814	A	G	739	574	416	35	292	22	92.24%	92.99%
610184	17.01	17	5,482,848	A	G	359	282	369	36	462	41	91.11%	91.85%
610184	17.01	17	5,532,113	T	C	396	353	297	22	254	21	93.10%	92.36%
610184	17.01	17	5,550,814	C	A	311	201	239	25	256	29	90.53%	89.82%
610184	17.01	17	5,577,378	G	C	299	294	195	11	331	42	94.66%	88.74%
610184	17.01	17	5,623,591	A	G	230	289	202	5	239	19	97.58%	92.64%
610184	17.01	17	5,643,361	T	C	373	487	843	54	317	23	93.98%	93.24%
610184	17.01	17	5,665,965	T	C	230	173	300	15	268	19	95.24%	93.38%
610184	17.01	17	5,666,242	G	A	159	142	216	15	249	16	93.51%	93.96%
610184	17.01	17	5,702,493	T	C	186	171	352	23	152	19	93.87%	88.89%
610184	17.01	17	5,702,782	C	T	262	277	492	31	214	21	94.07%	91.06%
610184	17.01	17	5,777,794	A	G	456	342	365	21	343	32	94.56%	91.47%
610184	17.01	17	5,778,149	A	C	154	86	158	5	96	9	96.93%	91.43%
610184	17.01	17	5,778,972	T	C	544	472	466	28	374	27	94.33%	93.27%
610184	17.03	17	8,367,156	C	T	314	396	293	27	725	37	91.56%	95.14%
610184	17.03	17	8,590,363	A	C	158	177	91	7	388	20	92.86%	95.10%
610184	17.03	17	8,599,626	G	A	307	281	165	18	325	10	90.16%	97.01%
610184	17.03	17	8,705,644	G	A	223	236	165	24	364	23	87.30%	94.06%
610184	17.03	17	8,732,896	C	T	103	96	40	3	371	22	93.02%	94.40%
610184	17.03	17	8,819,533	T	C	173	179	93	10	284	20	90.29%	93.42%
610184	17.03	17	8,840,605	C	T	362	364	193	13	573	40	93.69%	93.47%
610184	17.03	17	8,894,697	A	G	706	647	368	45	568	41	89.10%	93.27%
610184	17.03	17	8,951,470	G	C	466	486	203	26	544	27	88.65%	95.27%
610184	17.03	17	9,002,873	C	G	288	431	93	10	549	21	90.29%	96.32%
610184	17.03	17	9,136,022	A	G	279	342	329	31	395	22	91.93%	94.72%
610184	17.03	17	9,526,890	T	C	177	186	328	33	441	29	90.86%	93.83%
610184	17.03	17	9,696,727	T	G	94	126	126	9	126	9	93.33%	93.33%

610184	17.03	17	9,728,976	A	G	193	225	202	22	428	17	90.18%	96.18%
610184	17.03	17	9,800,911	C	G	434	391	228	14	394	19	94.21%	95.40%
610184	17.04	17	11,195,979	G	A	437	390	413	41	535	25	90.97%	95.54%
610184	17.04	17	11,328,356	C	T	483	532	455	53	394	24	89.57%	94.26%
610184	17.04	17	11,713,010	C	T	317	313	327	37	590	33	89.84%	94.70%
610184	17.04	17	11,822,223	A	G	159	170	152	20	429	25	88.37%	94.49%
610184	17.04	17	12,101,796	G	T	98	82	106	12	203	12	89.83%	94.42%
610184	17.04	17	12,182,367	G	A	641	680	650	54	364	17	92.33%	95.54%
610184	17.04	17	12,321,855	A	G	461	344	551	64	624	42	89.59%	93.69%
610184	17.04	17	12,783,479	A	G	328	308	277	18	382	23	93.90%	94.32%
610184	17.04	17	12,810,989	T	C	488	450	170	16	504	33	91.40%	93.85%
610184	17.04	17	12,839,020	C	T	90	113	46	3	375	21	93.88%	94.70%
610184	17.04	17	12,863,390	G	C	299	251	160	25	345	20	86.49%	94.52%
610184	17.04	17	12,877,118	A	G	775	666	317	32	482	19	90.83%	96.21%
610184	17.04	17	13,170,022	A	G	243	244	265	44	136	13	85.76%	91.28%
610184	17.04	17	13,196,180	T	C	453	398	488	41	539	28	92.25%	95.06%
610184	17.04	17	13,266,182	G	A	195	165	255	21	482	24	92.39%	95.26%
610184	17.05	17	16,889,678	C	T	120	115	36	7	213	161	83.72%	56.95%
610184	17.05	17	17,052,381	A	C	392	9	33	1	201	28	97.06%	84.10%
610184	17.05	17	17,102,097	G	C	737	48	324	23	349	108	93.37%	76.37%
610184	17.05	17	17,335,236	A	G	185	163	28	9	306	238	75.68%	56.25%
610184	17.05	17	17,366,356	C	T	118	103	19	2	245	167	90.48%	59.47%
610184	17.05	17	17,445,334	T	C	371	325	137	38	292	230	78.39%	56.02%
610184	17.05	17	17,451,928	C	T	355	331	99	25	287	220	79.84%	56.61%
610184	17.05	17	17,501,819	C	A	624	493	223	43	273	193	83.83%	58.58%
610184	17.05	17	17,505,248	T	C	747	626	168	46	210	167	78.50%	55.70%
610184	17.05	17	17,509,656	C	T	410	326	145	25	368	175	80.56%	60.50%
610184	17.05	17	17,513,109	C	T	156	167	48	16	151	149	75.00%	51.94%
610184	17.05	17	17,520,586	G	C	270	230	36	6	133	122	85.71%	52.16%
610184	17.05	17	17,541,304	T	G	215	191	38	10	269	209	79.17%	56.28%
610184	17.05	17	17,552,748	C	T	335	309	56	12	314	260	82.35%	54.70%
610184	17.05	17	17,555,672	G	A	205	209	45	8	319	234	84.91%	57.69%
610184	17.05	17	17,564,713	G	A	364	343	36	12	301	246	75.00%	55.03%
610184	17.05	17	17,570,010	T	C	247	218	26	1	244	165	96.30%	59.66%
610184	17.05	17	17,570,010	T	C	247	218	26	1	244	165	96.30%	59.66%
610184	17.05	17	17,582,813	G	A	262	201	31	7	269	189	81.58%	58.73%
610184	17.05	17	17,585,768	A	G	274	216	46	12	221	186	79.31%	54.30%
610184	17.05	17	17,586,676	G	C	324	272	38	3	272	169	92.68%	61.68%
610184	17.05	17	17,595,044	A	G	448	330	56	16	319	246	77.78%	56.46%
610184	17.05	17	17,602,527	A	G	114	107	17	4	224	176	80.95%	56.00%
610184	17.05	17	17,611,886	T	G	173	63	16	7	307	199	69.57%	60.67%
610184	17.05	17	17,701,514	T	C	218	275	113	29	323	250	79.58%	56.05%
610184	17.05	17	17,704,796	C	G	190	182	124	14	328	272	91.85%	54.87%
610184	17.05	17	17,735,169	T	C	365	382	179	24	296	240	88.18%	55.22%
610184	17.05	17	17,745,450	C	T	319	354	148	40	293	248	78.72%	54.16%
610184	17.05	17	17,822,784	A	G	135	157	59	12	174	139	83.10%	55.59%
610184	17.05	17	17,825,272	C	A	286	289	89	12	206	170	88.12%	54.79%
610184	17.06	17	18,494,954	T	C	116	117	27	4	210	134	87.10%	61.05%
610184	17.06	17	18,495,235	C	G	77	108	16	7	153	128	69.57%	54.45%
610184	17.06	17	18,495,239	T	C	78	109	17	7	149	125	70.83%	54.38%
610184	17.06	17	18,495,643	G	A	212	158	23	67	205	97	25.56%	67.89%
610184	17.06	17	18,513,565	T	C	157	152	31	11	233	166	73.81%	58.40%
610184	17.06	17	18,580,765	G	C	244	269	268	55	164	134	82.97%	55.03%
610184	17.06	17	18,588,350	T	A	100	57	15	59	139	103	20.27%	57.44%
610184	17.06	17	18,642,945	T	C	226	111	71	202	201	153	26.01%	56.78%
610184	17.06	17	18,716,625	G	A	337	326	218	30	242	173	87.90%	58.31%
610184	17.06	17	18,734,142	T	C	121	80	166	21	97	55	88.77%	63.82%
610184	17.06	17	18,800,336	A	G	217	177	77	17	91	81	81.91%	52.91%
610184	17.06	17	18,820,374	I	C	59	99	24	7	246	239	77.42%	50.72%
610184	17.07	17	26,384,236	T	C	85	89	116	39	96	80	74.84%	54.55%
610184	17.07	17	26,474,193	T	G	484	205	276	140	271	149	66.35%	64.52%
610184	17.07	17	26,490,848	A	G	249	274	415	115	282	223	78.30%	55.84%
610184	17.07	17	26,532,901	G	A	245	220	52	234	146	128	18.18%	53.28%
610184	17.07	17	26,555,002	G	A	180	177	273	82	259	192	76.90%	57.43%
610184	17.07	17	26,571,988	C	T	126	114	145	34	92	71	81.01%	56.44%
610184	17.07	17	26,583,714	G	C	440	347	475	96	340	240	83.19%	58.62%
610184	17.07	17	26,584,926	A	G	457	396	558	137	257	227	80.29%	53.10%
610184	17.07	17	26,670,150	A	G	268	248	368	94	377	316	79.65%	54.40%
610184	17.07	17	26,700,004	G	T	164	138	111	22	145	92	83.46%	61.18%
610184	17.07	17	26,703,372	G	A	215	182	41	126	253	230	24.55%	52.38%
610184	17.07	17	26,724,227	A	G	440	473	199	61	376	277	76.54%	57.58%
610184	17.07	17	26,728,128	T	C	371	367	147	44	241	184	76.96%	56.71%
610184	17.07	17	26,740,468	G	C	176	185	65	16	236	164	80.25%	59.00%
610184	17.07	17	26,759,955	A	G	215	167	61	13	216	154	82.43%	58.38%
610184	17.07	17	26,816,673	G	A	99	32	23	3	93	48	88.46%	65.96%
610184	17.07	17	26,816,673	G	A	99	32	23	3	93	48	88.46%	65.96%
610184	18.01	18	2,716	T	C	19	28	31	10	377	180	75.61%	67.68%
610184	18.01	18	4,338	T	A	36	13	34	3	195	11	91.89%	94.66%
610184	18.01	18	23,297	A	G	40	6	18	4	16	8	81.82%	66.67%
610184	18.01	18	43,218	A	G	97	0	53	0	75	0	100.00%	100.00%
610184	18.01	18	43,295	A	G	81	0	30	0	35	0	100.00%	100.00%
610184	18.01	18	59,839	G	A	250	64	53	22	91	58	70.67%	61.07%
610184	18.01	18	194,232	A	G	122	126	288	53	93	6	84.46%	93.94%
610184	18.01	18	257,262	G	C	177	206	96	18	353	40	84.21%	89.82%
610184	18.01	18	317,829	T	G	263	219	107	17	206	16	86.29%	92.79%
610184	18.01	18	351,365	G	C	394	448	234	40	355	39	85.40%	90.10%
610184	18.01	18	357,725	A	C	265	242	193	39	198	34	83.19%	85.34%
610184	18.01	18	375,796	T	C	361	365	335	59	262	29	85.03%	90.03%
610184	18.01	18	414,510	A	G	195	223	343	61	285	35	84.90%	89.06%
610184	18.01	18	442,844	T	G	612	565	446	65	269	36	87.28%	88.20%
610184	18.01	18	460,129	A	G	200	223	181	32	184	10	84.98%	94.85%
610184	18.01	18	592,081	G	C	226	194	193	16	236	29	92.34%	89.06%
610184	18.01	18	603,020	G	T	271	281	211	33	332	33	86.48%	90.96%
610184	18.01	18	656,371	A	G	400	356	113	18	274	38	86.26%	87.82%

610184	18.01	18	657,770	G	C	572	520	287	50	353	40	85.16%	89.82%
610184	18.01	18	853,673	A	G	224	249	241	32	266	25	88.28%	91.41%
610184	18.01	18	945,042	T	C	274	311	382	65	432	38	85.46%	91.91%
610184	18.01	18	1,425,271	C	T	351	402	266	61	210	28	81.35%	88.24%
610184	18.01	18	1,429,969	T	G	367	353	375	60	288	42	86.21%	87.27%
610184	18.01	18	1,762,731	A	G	403	383	532	79	321	28	87.07%	91.98%
610184	18.01	18	1,889,655	G	A	301	326	442	85	283	44	83.87%	86.54%
610184	18.01	18	1,911,733	G	A	191	221	288	49	92	18	85.46%	83.64%
610184	18.01	18	1,974,348	G	T	297	298	409	55	308	31	88.15%	90.86%
610184	18.01	18	2,160,315	T	C	401	325	277	51	334	35	84.45%	90.51%
610184	18.01	18	2,326,921	C	T	145	159	280	50	215	16	84.85%	93.07%
610184	18.01	18	2,475,075	A	G	324	252	352	39	129	11	90.03%	92.14%
610184	18.01	18	2,560,536	C	T	75	80	151	20	90	9	88.30%	90.91%
610184	18.01	18	2,583,662	G	A	313	214	247	29	294	26	89.49%	91.88%
610184	18.01	18	2,606,457	G	C	206	220	296	43	158	20	87.32%	88.76%
610184	18.01	18	2,695,700	A	G	108	93	260	38	118	14	87.25%	89.39%
610184	18.01	18	2,753,697	C	T	285	252	358	50	288	27	87.75%	91.43%
610184	18.02	18	4,586,475	C	T	509	553	601	89	328	41	87.10%	88.89%
610184	18.02	18	6,632,781	A	G	392	220	402	53	175	20	88.57%	89.74%
610184	18.02	18	6,692,570	C	T	505	530	720	138	366	37	83.92%	90.82%
610184	18.02	18	8,485,591	A	G	618	564	440	62	349	28	87.65%	92.57%
610184	18.02	18	9,498,373	T	G	329	303	351	58	294	33	85.82%	89.91%
610184	18.02	18	5,206,124	T	C	567	782	185	45	181	49	80.43%	87.70%
610184	18.02	18	5,274,463	A	G	293	256	197	23	150	13	89.55%	92.02%
610184	18.02	18	5,629,168	T	G	357	298	155	37	301	45	80.73%	86.99%
610184	18.02	18	5,809,644	A	C	374	399	403	54	249	36	88.18%	87.37%
610184	18.02	18	5,815,397	C	G	207	217	287	41	300	36	87.50%	89.29%
610184	18.02	18	5,817,519	C	T	206	196	223	28	249	19	88.84%	92.91%
610184	18.02	18	5,831,696	T	A	276	269	374	66	218	24	85.00%	90.08%
610184	18.02	18	6,271,948	A	G	256	305	254	50	342	40	83.55%	85.82%
610184	18.02	18	8,004,624	T	G	280	289	436	78	230	26	84.82%	89.84%
610184	18.02	18	8,231,986	A	G	365	468	579	118	379	48	83.07%	88.76%
610184	18.02	18	9,107,867	C	T	106	121	91	13	129	7	87.50%	94.85%
610184	18.02	18	9,244,785	T	C	320	291	345	56	226	21	86.63%	91.50%
610184	18.02	18	9,245,784	A	C	353	347	408	60	168	22	87.18%	88.42%
610184	18.02	18	9,552,042	T	C	538	586	461	77	373	33	85.69%	91.87%
610184	18.02	18	9,607,988	T	G	59	58	44	5	120	17	89.80%	88.36%
610184	18.02	18	9,849,998	T	C	352	290	385	51	267	38	88.30%	87.54%
610184	18.02	18	10,696,227	C	T	232	269	146	31	334	30	82.49%	91.76%
610184	18.02	18	11,494,610	C	A	203	274	276	58	262	22	82.63%	92.25%
610184	18.02	18	11,828,987	T	C	256	280	183	35	333	37	83.94%	90.00%
610184	18.02	18	12,065,000	C	A	209	179	38	10	314	34	79.17%	89.23%
610184	18.02	18	12,089,654	C	T	139	145	36	11	173	14	75.00%	92.54%
610184	18.02	18	12,093,849	C	T	138	152	91	16	162	15	85.05%	91.53%
610184	18.02	18	12,110,249	A	T	190	157	161	29	191	24	84.74%	88.84%
610184	18.02	18	12,147,624	A	G	299	425	329	51	374	49	86.58%	88.42%
610184	18.02	18	12,201,483	G	A	109	147	89	13	222	29	87.25%	88.45%
610184	18.02	18	12,279,151	G	A	195	231	43	9	260	29	82.09%	89.37%
610184	18.02	18	12,623,717	A	T	233	216	212	39	189	23	84.46%	89.15%
610184	18.02	18	12,633,193	A	G	269	267	210	46	186	26	82.03%	87.74%
610184	18.02	18	12,708,593	A	G	327	291	152	23	308	27	86.86%	91.94%
610184	18.02	18	13,303,022	A	C	309	317	200	35	330	33	85.11%	89.67%
610184	18.02	18	13,327,334	C	T	324	316	476	82	303	36	85.30%	89.38%
610184	18.02	18	13,742,318	T	C	472	32	321	24	246	100	93.04%	71.10%
610184	18.02	18	13,819,289	G	A	272	356	48	10	354	42	82.76%	89.39%
610184	18.02	18	13,838,979	T	C	234	212	133	38	224	34	77.78%	86.82%
610184	18.02	18	14,184,207	G	A	161	159	90	26	142	15	77.59%	90.45%
610184	18.02	18	14,190,667	A	G	202	192	121	16	180	20	88.33%	90.00%
610184	18.02	18	14,204,773	A	G	137	55	62	79	135	51	43.79%	72.58%
610184	18.02	18	14,210,584	T	C	23	0	21	0	41	0	100.00%	100.00%
610184	18.02	18	14,215,728	A	T	99	1	54	0	130	0	100.00%	100.00%
610184	18.02	18	14,215,732	G	A	101	1	54	0	131	0	100.00%	100.00%
610184	18.02	18	14,242,369	T	C	56	82	20	11	111	94	64.52%	54.15%
610184	18.02	18	14,332,923	G	A	121	95	109	19	143	13	85.16%	91.67%
610184	18.02	18	14,342,993	T	C	35	52	35	7	60	3	83.33%	95.24%
610184	18.02	18	14,349,636	G	C	116	69	15	169	23	82.14%	88.02%	
610184	18.02	18	14,353,015	C	T	139	117	57	17	155	18	77.03%	89.60%
610184	18.02	18	14,356,807	A	G	85	117	57	8	87	18	87.69%	82.86%
610184	18.02	18	14,369,025	A	T	138	161	41	18	173	22	69.49%	88.72%
610184	18.02	18	14,372,101	T	C	90	58	26	6	87	10	81.25%	89.69%
610184	18.02	18	14,379,874	C	A	99	98	38	4	212	19	90.48%	91.77%
610184	18.02	18	14,396,076	G	A	263	24	84	11	221	28	88.42%	88.76%
610184	18.02	18	14,396,127	T	C	262	31	87	11	217	27	88.78%	88.93%
610184	18.02	18	14,400,596	T	C	209	100	17	146	16	85.47%	90.12%	
610184	18.02	18	14,423,727	T	C	63	74	35	5	138	11	87.50%	92.62%
610184	18.02	18	14,457,191	A	G	165	174	42	8	171	22	84.00%	88.60%
610184	18.02	18	14,459,528	A	G	167	110	49	4	123	13	92.45%	90.44%
610184	18.02	18	14,466,619	A	G	363	59	92	29	418	139	76.03%	75.04%
610184	18.02	18	14,478,438	A	G	717	278	134	84	385	242	61.47%	61.40%
610184	18.02	18	14,498,562	T	C	135	164	123	31	140	16	79.87%	89.74%
610184	18.02	18	14,517,111	T	A	382	210	280	181	174	73	60.74%	70.45%
610184	18.02	18	14,542,907	C	A	245	244	99	100	147	141	49.75%	51.04%
610184	18.02	18	14,542,977	G	A	177	127	68	56	110	78	58.48%	58.51%
610184	18.02	18	14,543,691	C	G	255	11	86	3	157	12	96.63%	92.90%
610184	18.02	18	14,544,641	A	G	250	15	120	8	156	15	93.75%	91.23%
610184	18.02	18	14,549,906	G	A	40	12	18	6	21	8	75.00%	72.41%
610184	18.02	18	14,550,413	C	T	254	25	96	16	88	8	85.71%	91.67%
610184	18.02	18	14,571,208	G	A	252	4	153	1	138	8	99.35%	94.52%
610184	18.02	18	14,578,101	T	G	241	387	229	218	121	121	51.23%	50.00%
610184	18.02	18	14,590,160	G	A	258	112	238	91	82	54	72.34%	60.29%
610184	18.02	18	14,724,000	G	A	304	330	301	51	238	27	85.51%	89.81%
610184	18.02	18	14,725,096	G	A	245	220	294	41	219	25	87.76%	89.75%
610184	18.02	18	14,730,923	T	A	70	34	36	15	41	37	70.59%	52.56%
610184	18.02	18	14,730,961	G	T	53	35	28	7	31	22	80.00%	58.49%
610184	18.02	18	14,732,024	T	G	35	33	25	5	44	3	83.33%	93.62%

610184	18.02	18	14,741,049	C	T	32	29	31	3	53	2	91.18%	96.36%
610184	18.02	18	14,741,770	G	A	87	74	61	11	131	19	84.72%	87.33%
610184	18.02	18	14,773,966	T	A	313	236	260	26	216	17	90.91%	92.70%
610184	18.02	18	14,858,391	G	A	70	2	22	1	60	4	95.65%	93.75%
610184	18.02	18	14,858,417	G	T	81	8	26	4	74	21	86.67%	77.89%
610184	18.02	18	14,858,515	A	C	81	20	21	7	87	23	75.00%	79.09%
610184	18.02	18	14,858,673	T	C	56	53	17	16	120	66	51.52%	64.52%
610184	18.02	18	15,024,977	T	G	92	35	46	46	63	39	50.00%	61.76%
610184	18.02	18	15,039,023	G	T	273	234	173	37	264	28	82.38%	90.41%
610184	18.02	18	15,062,863	C	T	378	149	222	137	171	128	61.84%	57.19%
610184	18.02	18	15,062,947	A	T	224	59	129	60	102	36	68.25%	73.91%
610184	18.02	18	15,083,045	G	T	431	178	294	169	213	131	63.50%	61.92%
610184	18.02	18	15,133,499	G	A	248	49	136	42	97	52	76.40%	65.10%
610184	18.02	18	15,240,446	C	T	23	16	23	4	52	5	85.19%	91.23%
610184	18.02	18	15,245,286	G	A	135	16	66	15	65	10	81.48%	86.67%
610184	18.02	18	15,245,298	C	T	158	15	80	15	68	12	84.21%	85.00%
610184	18.02	18	15,262,351	C	A	37	1	31	0	30	0	100.00%	100.00%
610184	18.02	18	15,263,371	G	T	51	4	21	1	32	2	95.45%	94.12%
610184	18.02	18	15,279,029	A	G	126	8	182	9	53	6	95.21%	89.82%
610184	18.02	18	15,282,501	G	T	147	7	175	4	138	15	97.77%	90.20%
610184	18.02	18	15,312,261	A	G	41	6	29	4	55	3	87.88%	94.82%
610184	18.02	18	15,337,493	G	T	191	23	90	17	69	11	84.11%	86.25%
610184	18.02	18	15,370,467	C	T	269	6	134	4	120	24	97.10%	83.33%
610184	18.03	18	44,895,657	C	T	361	355	391	90	254	32	81.29%	88.81%
610184	18.03	18	45,010,603	C	T	188	207	305	56	221	13	84.49%	94.44%
610184	18.03	18	45,321,944	C	A	494	488	262	40	287	31	86.75%	90.25%
610184	18.03	18	45,604,820	A	T	485	97	99	13	224	85	89.19%	72.49%
610184	18.03	18	45,782,755	T	C	556	475	630	78	314	42	88.89%	88.20%
610184	18.03	18	45,969,496	C	A	390	398	208	28	341	57	88.14%	85.68%
610184	18.03	18	46,585,522	A	G	480	417	370	66	324	37	84.66%	89.75%
610184	18.03	18	46,935,953	A	G	125	163	93	11	186	14	89.42%	93.00%
610184	18.03	18	47,534,281	G	A	510	548	316	78	346	51	80.20%	87.15%
610184	18.03	18	47,593,574	A	G	246	267	468	92	237	29	83.57%	89.10%
610184	18.03	18	47,840,041	C	A	395	390	429	93	226	27	82.18%	89.41%
610184	18.03	18	48,059,810	A	C	258	251	251	49	371	27	83.67%	93.23%
610184	18.03	18	48,135,559	A	G	362	299	159	27	281	28	85.48%	90.94%
610184	18.03	18	48,249,117	T	C	354	379	464	216	297	167	68.24%	64.01%
610184	18.03	18	48,370,749	T	C	266	331	390	66	249	33	85.53%	88.30%
610184	18.03	18	48,459,799	A	G	296	309	238	49	187	30	82.93%	86.18%
610184	18.03	18	48,460,344	G	A	207	163	191	28	126	12	87.21%	91.30%
610184	18.03	18	48,460,344	G	A	207	163	191	28	126	12	87.21%	91.30%
610184	18.03	18	48,466,098	T	A	453	499	409	60	233	39	87.21%	85.65%
610184	18.03	18	48,466,098	T	A	453	499	409	60	233	39	87.21%	85.65%
610184	18.03	18	48,478,366	C	T	358	359	737	120	203	19	86.00%	91.44%
610184	18.03	18	48,478,368	C	T	175	198	362	51	119	7	88.22%	94.44%
610184	18.03	18	48,478,368	C	T	175	198	362	51	119	7	88.22%	94.44%
610184	18.03	18	48,478,896	C	T	473	538	727	125	270	22	85.33%	92.47%
610184	18.03	18	48,478,896	C	T	473	538	727	125	270	22	85.33%	92.47%
610184	18.03	18	48,483,632	T	C	183	182	272	31	239	38	89.77%	86.28%
610184	18.03	18	48,483,632	T	C	183	182	272	31	239	38	89.77%	86.28%
610184	18.03	18	48,484,955	G	A	303	278	284	39	280	24	87.93%	92.11%
610184	18.03	18	48,484,955	G	A	303	278	284	39	280	24	87.93%	92.11%
610184	18.03	18	48,505,466	C	T	424	380	322	51	363	47	86.33%	88.54%
610184	18.03	18	48,505,466	C	T	424	380	322	51	363	47	86.33%	88.54%
610184	18.03	18	48,512,797	C	T	412	333	345	51	280	44	87.12%	86.42%
610184	18.03	18	48,512,797	C	T	412	333	345	51	280	44	87.12%	86.42%
610184	18.03	18	48,703,962	A	T	222	205	271	76	251	28	78.10%	89.96%
610184	18.03	18	48,703,962	A	T	222	205	271	76	251	28	78.10%	89.96%
610184	18.03	18	48,741,883	G	T	989	87	456	36	304	91	92.68%	76.96%
610184	18.03	18	48,741,883	G	T	989	87	456	36	304	91	92.68%	76.96%
610184	18.03	18	48,861,272	A	G	364	459	507	96	259	35	84.08%	88.10%
610184	18.03	18	48,861,272	A	G	364	459	507	96	259	35	84.08%	88.10%
610184	18.03	18	48,880,293	C	T	274	1	173	2	84	0	98.86%	100.00%
610184	18.03	18	48,880,293	C	T	274	1	173	2	84	0	98.86%	100.00%
610184	18.03	18	48,880,303	C	T	178	1	122	1	47	0	99.19%	100.00%
610184	18.03	18	48,880,303	C	T	178	1	122	1	47	0	99.19%	100.00%
610184	18.03	18	48,900,678	A	G	71	101	104	26	46	9	80.00%	83.64%
610184	18.03	18	48,900,678	A	G	71	101	104	26	46	9	80.00%	83.64%